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SKULE

The Engineering Society Handbook 1977-78

Edited by Eric Hartwell

This has been yet another SKULE Production

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Jser's Guide

This is a massive handbook. You must use it properly, or else you won't.

1) Check the index and see what's here.
2) F!rosh: read the F!rosh section, NOW.
3) Everybody read Survival.
4) Read everything else, except the Joke Page.

SKULE Opening Words

1

Preword

If there's anyone out there who is actually reading this, it's probably because you're trying to figure out why it is. Well, because.

Consider it an experiment. I hardly expect anybody to actually read everything, but I hope everybody will read and learn something. And even if you don't, it **looks nice**; there's no reason why you shouldn't be able to just enjoy looking at the pictures. **I'm** happy with it, so I don't care, actually.

But has the process of surviving Engineering gotten so tough that you really **need** a handbook like this?

I sort of doubt it, but every little bit helps. I see the grind from after a year of grad school, and all I can say is *it still doesn't look any better!*

There's no reason why everybody has to learn the same basic tricks for themselves. Maybe we can offer some advice (especially to the F!rosh, who by definition know nothing), or let you in on a few of the secrets that everybody says aren't.

There is always a problem of involvement, of communication between the individual and everybody else. **The Engineering Society is the students** — whether the student realizes it or not. It always happens that only a few people end up doing everything, and the vast majority accept the result as being merely their due. Admittedly, sometimes they do make the supreme effort to complain, but to these people I say nothing. It's not worth the bother.

Any project of this nature could not be carried out without the help of a large number of people. Or rather, it *could*, but it would be a really

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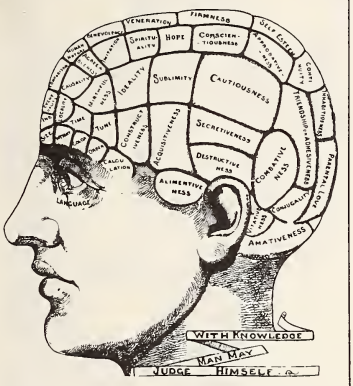
stupid thing to do when people are willing to help. Special thanks go to Peter Noble, Bob Ketchen, Doug Chmara, Claudia Straka, Joe Lstiburek, Bonnie Carson, Karen Kennedy, Graham Wideman, Heidi (of course), Rick Johnston, Ken Smith, Greg Fitz, Ellen Rochman, and (in no particular order) Lorraine and David. Not to mention everybody else who paid to remain anonymous.

In a departure from the norm, I'd also like to mention some of those people who **didn't** contribute anything, or, worse, didn't deliver what they had promised. But I won't. A lot of people had bright ideas, but when it came down to the actual work, most found themselves too "busy". This is exactly what I had expected, since a year (or two?) of being Toike editor dispelled all of **those** illusions. This group includes far too many of the Executive members — you know who you are.

We've used material from old handbooks, old Toikes, and an infinity of other sources — wherever we found something that seemed to be worth knowing; we wrote new material wherever it was necessary. Engineering handbooks tend to repeat almost indefinitely. Some of the articles (like "A Few Words About...") were first written almost ten years ago, but with a little updating they are still as valid as ever.

Most of the material on beer is taken directly from *The Great Canadian Beer Book* (Donaldson and Lampert, McClelland and



Stewart 1975), which is worth buying if you want to learn more about the water substitute. Other sources are the *Toike Oike, Cold Iron and Lady Godiva* (Harris and Montagnes, U of T Press 1972), and numerous others who we can't remember.

In case anyone is interested, we typeset the entire publication ourselves at Eric. S. Rosen Enterprise. The text is elegantly set in *Souvenir*, and the headlines are *LSC Manhattan* and *Futura Medium*. It was printed at Parkview Press.

I hope that you find something interesting in this handbook — but far more than that, I hope you find something **useful**. There's so much that there has to be **something**.

I've enjoyed it,
Eric Hartwell
Eng Sci 7T6

SKULE Opening Words

President's Platitudes

Welcome to the Faculty of Applied Science and Engineering and welcome to the Engineering Society. You are now members of Canada's oldest and most respected engineering school, which has been teaching engineers since 1873.

The Engineering Society has been around since 1885, and, as can be expected from its age (and the nature of engineers in general), it has very illustrious and colourful history. Examples of this rich heritage will soon become evident, if they haven't already. The memory of first hearing the Skule Cannon, reading your first Toike, and participating in your first caper will not be easily forgotten.

Nor will you forget the academic side. You'll long remember those sleepless nights, those endless hours at the computer terminal, those feelings of regret at not having done all your problem sets when questions from them show up on your exams. You'll also remember the warm feeling that comes from understanding a difficult concept, the feeling of success that comes from a design project that actually works, the feeling of a nurse, and the pride that comes from finally getting your Iron Ring.

In your travels you will soon find that here in Engineering exists the strongest sense of esprit de corps on campus. Engineering undergrads have to work **hard** to achieve their goals and have very little time to waste. In their precious little spare time, they also play **hard**. They know what you will all learn — your four years here will pass more quickly if you get involved. Show the university that you're an Engineer and proud of it. Show those of us already involved that you care, and show yourselves that you have what it takes to be a Skuleman.

Scite et Strenue
(Skillfully and Vigorously)
Joe Lstiburek
President, Engineering Society

SKULE Opening Words

Dean's Deliverance

In choosing Toronto, you have selected a great university in which to study, with the widest diversity of programs, and with the finest collection of scholars, libraries and laboratories in the country. Although the presence of these scholars and facilities may not be very evident nor very important to you during your first year here, their significance for you will increase with each passing year.

As your own knowledge and skills develop, you will experience a need for deeper insights, more information and more sophisticated equipment, and you will make ever more use of our fine resources. The Faculty of Applied Science and Engineering upholds in every way the traditions of scholarship and excellence that are the hallmark of this University. You have made a good choice.

In choosing Engineering as your field of study, you have elected what many would now argue is the most relevant general education for our technological age; and the evidence shows that many who have studied in this faculty have not in fact pursued careers as professional engineers. On the basis of their education and training here, these graduates have moved on to a wide variety of other important and socially useful occupations. Nevertheless the emphasis in our programs is, as it must be, on the scientific, mathematical and engineering subjects that comprise the proper education for someone who wishes to pursue a career as a professional engineer.

The acute problems faced by this country and the rest of the world with respect to energy, the environment, transportation, communication and resource depletion are not temporary. They will not go away if left unattended, but on the contrary will get worse. To tackle them and to solve them will require the application of the best human talent that can be brought to bear. Among

SKULE Opening Words

1

those who will be needed in this task are men and women highly trained in the pure and applied sciences and in the arts of design and manufacture. Your programs of study in this Faculty are designed to prepare you to join that elite company of men and women and, together with others trained in the social sciences and humanities, to make your contribution to the betterment of society.

If you have the talent and the motivation to succeed in the demanding course of study that you are now undertaking, you will graduate with a highly respected degree and an opportunity to become a registered Professional Engineer. Engineering is one of the oldest and most honoured professions. Our predecessors built the pyramids of Egypt, the aquaducts of Rome, the bridges and waterways of Mediaeval times, the railroads and steamships of the Nineteenth century, and the electric power systems, airways and communication systems of the Twentieth.

As a Professional Engineer, you are likely to find yourself in a position of responsibility, in which the safety of structures, or the efficiency and performance of complex systems, or the impact of machines and processes on the people who interact with them, will be affected by the competence, integrity and sensitivity with which you carry out your work. These are the hallmarks of a professional, and you must start right now, at the very beginning of your engineering education, to recognize these facts, to acquire the necessary attitudes and to govern your personal conduct accordingly.

It goes without saying, on the matter of personal conduct, that it is absolutely beyond the pale to claim as your own, the work of another. Any work that you submit to the Faculty for grading and evaluation that purports to be your own, must be your own. That is not to say that there are not proper occasions for group effort, for there are; not occasions when students should help one another and exchange ideas, for this is an important part of your education. However, where examinations, tests, or other graded work is concerned, that is explicitly required to be your own. It is a serious breach of our ethical code to copy, to cheat, to use the work of another student. I must inform you that, in recent years, when such transgressions have been discovered, they have been treated with the utmost severity.

Your first months here may prove to be a difficult and confusing period. That is normal. But with time, many of the things that are troubling you will sort themselves out. Do not hesitate to turn to a member of the staff of a senior student if you need advice, information or help. You will usually get a sympathetic reception. So, welcome to the company of Skulemen (Skule persons?) and may your years here be successful and enjoyable.

B. Etkin
Dean

1

2

A Few Words About...

A few words about some of the things you may be wondering about are now in order.

One of your largest expenses in the next few weeks is for **BOOKS AND EQUIPMENT**. One of the best bits of advice we can give is: "Don't rush out and buy all your books the first week." Find out first if your prof is going to assign problems from it or refer to it in the lectures. Some texts, in the past, have languished unused on shelves. Sometimes alternate texts are far superior. Others are referred to quite a bit and will prove helpful. Also, make use of the Schaum's Outlines which cost much less than the text and are often much more valuable for the problem oriented course.

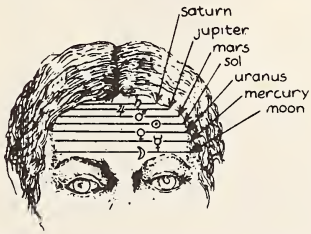
When you do come to buy your books, you will find them all at the Engineering Stores at the lowest possible prices. You will also find a good selection of calculators at the Stores. A good calculator is essential, but prices are still dropping so beware of committing yourself to an expensive investment in rapidly outdated technology. Remember that **programmable calculators are not permitted in exams or tests in the Faculty**, so if you buy one for your problem sets you'll have to buy, beg or borrow a non-programmable for the exam.

Another thing we'd like to expound upon here is **THE CARE AND FEEDING OF PROFS.** Despite what you may think, they do, to a man, know more about the subject than you do. Profs have no vested interest in destroying any of you. They are, however, human and subject to some very human hangups.

One problem they have is that, with no training in teaching, they often have trouble in establishing communication. Many tiny hassles develop into major confrontations simply because no student would go to the prof's office and explain that the method of handling a problem set was unworkable or that his writing on the board was unreadable from the back of the second row. The best way to avoid even these efforts is to take part in the staff-student smokers and get to know the staff and other students.

There may, however, be some situations which no amount of friendly communication will heal. When this happens, run, don't walk to the Faculty Office and ask to see W. A. Miller, the Chairman of First Year Studies. He not only has the power to effect change and wants to help, but he is one of the friendliest people you'll meet at the university.

While we're on the subject, we might say a little more about the **FACULTY OFFICE.** That's where you'll find the aforementioned Associate Dean Miller, as well as Associate Dean Janischewskyj, Associate Dean Leitch, Secretary of the Faculty Mr. Gow,and of course Dean Etkin himself, not to mention a whole host of comely nubiles. All these people are sincerely interested in helping out.



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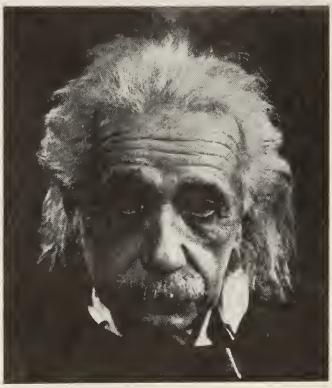
Two subjects freshman Engineers are always curious about are **RESIDENCES AND COLLEGES.** Taking them in turn, if you are not already in a residence, chances are slim that you will change this year. However a very large number of students find it advantageous to live away from home sometime during their university career. What it lacks financially compared to living at home, it certainly makes up for in independence. If you're from out of town, of course, you are living somewhere away from home.

However, there are many types of residences to choose from, ranging all the way from a rented room through to university residence to co-op. No one type is best for everyone, so try to visit and talk with people in all kinds to find out what kind of home you should be committed to.

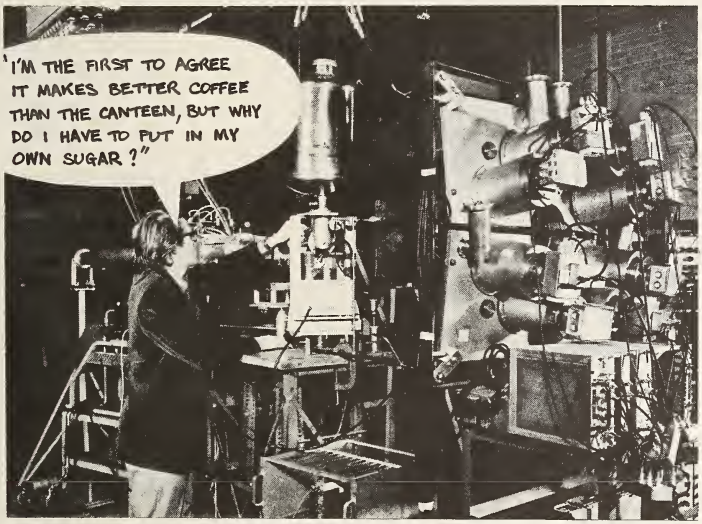
Living on campus, and particularly in one of the college residences, can add a lot to your social life. Watch out, however, and leave yourself some time for study and other trivial things. Even if you don't live in at one of the colleges you can still join one for a few measley dollars. If you think you'll need the college library or mind paying a little extra for the few college dances or have high enough marks (80-85 and up) to warrant a scholarship there, then joining a college is for you. Otherwise, don't waste your money.



The biggest problem facing you, of course, is four years of **WORK**. The best thing we can say to you is: don't get behind in your work. Having said that, we admit (once we stopped laughing) that everyone does get behind sooner or later and must catch up. This is possible, barely.

Do go to your professor with your problem, but try to define ahead of time specific questions. Really, in most of your work, organization is half the battle.

The staff tells us that the 'average student' will work an 'average' of 48 to 50 hours per week including



classes. Be prepared to devote this time but remember that nobody's average and try to set some sensible priorities for yourself. No student ever does everything he is supposed to dobut if you organize yourself in order to have specific committments of time to schoolwork and outside activities then you can retain both your marks and your sanity.

The things that will loom largest in your life in the next four years are tearful experiences known as **PROBLEM SETS.** Most of the work you'll do here, outside of note taking, studying and the occasional experiment, will involve solving a specific number of problems to be handed in at a set time and marked.

The importance of these marks varies wildly byt generally the problem sets are teaching tools, not examinations. If you do nothing else while you are here, do the problem sets — you'll probably pass with ease. If you haven't got them done on time, tell the demonstrator or prof, and ask for an extension — then at least he won't be angry with you (too much).

Even though problem sets are often your only method of self-assesment, virtually everone has copied part of one (or worked in a group on a supposedly independent effort) at some time or another. Let us caution you, however, about falling into the habit of copying whole sets on many occasions. When the exams (which count a lot more)

come, you are doomed! And you don't fool anybody during the term, either.

We hear that in high school they still like the students to show up for most classes. At university your time is at a premium, so use it wisely. Some lectures are plainly a waste of time, so feel free to skip them. However, that seemingly irrelevant material covered during those boring lectures may not seem so useless during, say, the last weeks before Christmas or the period around the end of April, or, for that matter, around mid-summer when you do get your results. Some profs have a habit of leaving half of the course material to the last few weeks, then basing the exam almost entirely on it, so beware.

Speaking of Christmas, and Study Week for that matter, plan on getting nothing done during this time because that's exactly what will happen anyway.

We hope that you are in the mood to be depressed because we now have to talk about **EXAMS**. It is certainly not in our capability to tell you how to achieve good marks on these disasters. Rather, we will impart to you a few tips concerning the fighting of this devestating holding action.

Firstly, they are virtually all made up of problems, not essays. This means it is really possible to get zero or some other incredibly terrible mark. Mostly you will leave an exam convinced that the proper course of action for you is to transfer to a basket weaving course at some community college.

But be of good cheer. What really counts is the mystical magical **Bell Curve**. Nearly all profs believe that the mark distribution should follow a *normal* (gaussian) curve, with the average somewhere around 65-70%. The marks are usually "adjusted" to fit, so what really matters is

how badly you did in relation to the rest of the class. (If everyone else failed too, then your zero looks only half as bad).

Usually on term tests they leave these marks so that you are frightened into doing some work but on a final exam they are usually all raised (but not always — the curve works both ways, so if everyone did really well your mark may go down!).

One usually walks into an exam feeling terrible. If there is a good medical excuse for this, or even if it is just exam nerves, take advantage of the provisions for petitioning the Examination Committee.

The way this is explained it the calendar, you get the impression that extensive hospitalization or death (yours) might, just possibly, be acceptable petition subjects, sometimes. In reality anything from a bad trip to a bad cold is legit and worth the short walk over to the Health Service. It costs nothing and may be worth quite a few marks. Do your petitioning at once, however, since they somehow suspect petitions which arrive simultaneously with the receipt of the final marks.

Other than that all we can say is good luck and if you find the secret of success phone us at 978-2916 and we'll take it off your hands at a reasonable rate.

SKULE

F!rosh

First Year Committee

First Year is so much fun that some people come back to do it a second time. The **First Year Committee** is the group who sees to the full distribution of such fun.

Early in September, each F!rosh teaching group will elect one of their classmates to represent them on the Engineering Society Council. Representatives will be chosen to sit on Faculty Council in a similar manner. These are the dedicated and tireless new Skulemen who comprise the First Year Committee. They elect from their number one supreme leader, the First Year Chairman, who is privileged as a member of the Executive Committee of the society.

It is the duty of this group, under the leadership of its Chairman, to inform the plebian hordes of up-cumming Society events, to instill a healthy amount of Skule spirit, as well to plan and execute numerous Engineering events intended to introduce F!rosh to Skule life.

F!rosh traditionally have been involved deeply in the Chariot Race, several pubs each year, the Slave Auction, Oktoberfest, the Cannonball's Intercourse Competition, and sports, not to mention BFC Capers. So we won't. Aside from these more traditional events, each year the Committee tends to try to leave its own lasting impression on the traditions of the Society.

For instance, thus year major inroads were made in the developmemt of better control methods for the F!rosh pub. It was found that the original issue of steel clubs with spikes to quell the over zealous resulted in some amount of overkill, and marshalls were reissued with rubber clubs instead. Not only did the F!rosh mortality rate sharply decline, but attendance at pubs increased by one.

Seriously, the last Committee did a bang-up job, and we anticipate that this year's group will prove even more resilient. Many of last year's members are still active in other responsible areas of the Society. We think that this year, **you** can do as well. Cum on out and contribute- it's for your own increased enjoyment!

SKULE

F!rosh

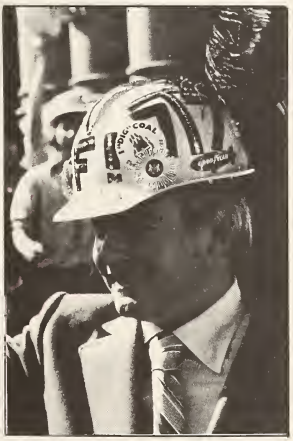
HARD Hats

Genus: Headgear, Industrial, Protective (Latin: Yarmulkus Plasticus)
Habitat: On top of all proud Skulemen
Species: White = Da Fuhrer Command; Royal Blue = Brute Force Committe; Red = Cannon Guard; Green = Toike type; Black = incompetent Chemical; Gold = five year course; Pink = artsy; Yellow = Common proletariat
Decoration: A pure, virginal, undecorated hard hat is the sign of a F!rosh destined to flunk out and become a workee, or worse.
Helpful hints: You **will** decorate your hard hat. If you lack imagination, put on your year and course, if you really expect to graduate (Note to Eng Sci types: forget it). Electrical tape (in several colours) is easy to use, but you can stick on anything that will stay. Popular initials are SPS, BFC, LGMB, APSC, SHIT, SKULE, MOM, SEX, HORNY, etc. Glue on beer labels and/or caps or anything else you've swallowed, or a nurse, or raccoon tails (with or without raccoon), headlights, propellors, horns, nuclear warheads, or the SAC dome. Epoxy works well, depending on what you want it to stick to.

During the year, your hard hat will become not only your protector and guardian, but also your best friend and companion. If you can't take your hard hat, take a dog — and if you can't take a dog, take a nurse.

No true Engineer would reveal the naked exterior of his hat in public, and no F!rosh would dare to, unless he was **really** dumb. Don't forget the hard hat decorating contest at the F!rosh dance on September 16.

Treat your hard hat with kindness and love, and it will return your affection.



English Facility Tests

The Faculty has devised, in its great wisdom, one of the most appropriate and uncomfortable welcomes to undergraduate freshmen ever devised: the **English Facility Test**. What better way to be welcomed to your first day at university than by a test. Don't laugh, people, but cry, because there will be many more in your four years here, or is it five, or six, or....

The question here is why did all you dumb frosh have to write an English Facility Test?

The reasons for having to write are easy. English facility is a pre-requisite to engineering undergraduate studies at this University. Inasmuch as there is yet no feasible mechanism for screening all applicants, students with inadequate English aptitude will be admitted and consequently, as a temporary measure, post-admission testing is being conducted.

Okay, so that's why you have to write one. What happens if you flunk it?

This aspect of this whole exercise is turning into an administrative and bureaucratic nightmare. The course of action that was decided upon by the Faculty Council on Feb. 10 of this year as excerpted from Report 2770 was:

"That those students who obtain an unsatifactory result in the EFT be required to complete successfully an appropriate non-credit remedial English course prior to entering the Fourth Year. Students in the category who have not successfully completed a remedial English course must be enrolled in one as a condition of registration in the faculty."

In other words you would have been required to take remedial courses until you passed the test, even if it took you till Fourth Year. Now, that's what they would have wanted to happen. This was the Faculty Council's ideal solution to a problem it should have never had to deal with.

Here's where things began to get interesting. The Faculty Council specified that the remedial courses were to be non-credit, and not run by

the Faculty of Engineering. It was felt that this was a university-wide problem, not just an Engineering one. As such the cost of these remedial courses was to be borne by the University as a whole and not by the Faculty of Applied Science and Engineering.

Yes, you guessed it. The University wouldn't cough up the $8,000 necessary to carry out the program. Now this happens in July. Panic descends. There is no way Report 2770 can be implemented without the money. What to do?

It was decided at a Faculty Council executive meeting later in July, as a stop-gap measure, to implement an alternative arrangement for remedial instruction based on the arrangements that existed before the adoption of Report 2770 and in typical Faculty Council mumbo jumbo call it *"the modified 'status quo' arrangement"*.

That gem is outlined below:

'Students whose essays are rated as "Unacceptable" will be streamed into 3 levels, according to the degree of remedial action indicated [see below]. Students should note that the remedial action may include a requirement to take a non-credit course in addition to the regular academic course load.

***Level 1** — A single term English course offered by the Department of English [ENG prefix].*

***Level 2** — A single term English-as-a-Second-Language course offered by the School of Continuing Studies [ESL prefix].*

***Level 3** — A full year English-as-a-Second-Language course offered by the School of Continuing Studies [ESL prefix].*

Students who fail to write the EFT on Orientation Day as required will be channeled administratively into either Level 1 or 3."

So this takes care of this years' batch of dumb frosh, however the set-up is totally unacceptable, and because of the administrative nightmare involved it will probably be unworkable to boot.

The issue is far from dead so expect to hear about it during the course of the year. Faculty Council will have its hands full. I'll bet you thought Engineering was just numbers.

The Engineering Society?

By registering in the Faculty of Applied Science and Engineering as a full time undergraduate student you become a voting member of the Engineering Society. If you by chance happen to graduate, you become a non-voting life member of the Society. There is a nominal initiation fee of $10.00 which goes wholly to support orientation activities.

The Engineering Society has a Council which is responsible for carrying out the policies of the Society and conducting its business. Council consists of Class Representatives elected from among the students in each of the Second, Third, and Fourth Years of each Program in the Faculty, Class Representatives elected from each First Year Group, undergraduate representatives to Faculty Council elected in the same manner as the Class Representatives, Chairmen of the nine Affiliates (The University of Toronto Engineering Athletic Association, the Civil Engineering Club, the Geological Engineering Club, the Mechanical Engineering

Club, the Industrial Engineering Club, the Engineering Science Club, the Chemical Engineering Club, the Electrical Engineering Club, and the Metallurgy and Materials Science Club), the Engineering Representatives to the Students' Administrative Council and the President, the Vice-President, Administrative and the Vice President, Activities.

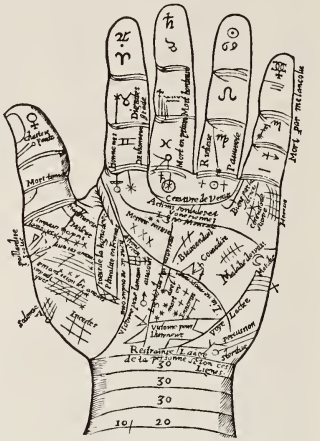
There is an Executive Committee of Council which is responsible for recommending general policy to Council, for providing the means of implementation of legislation passed by Council and for supervising the duties of Society Employees. The Executive Committee of Council is responsible to Council, and only in extraordinary circumstances may it act on its own authority. Each year, Council appoints individuals to fill numerous position among which are the Toike Oike Editor, the Manager of the Stores, the LGMB Leader, the Chief of the Brute Force Committee and the Cannoneer.

The most visible activites of the Council are the social activities. The Frosh Orientation program is an example, the up-and-coming Oktoberfest, the Cannonball in January, the Grad Ball in March. On

top of this there is the Broadway quality show, "Skule Nite". Other famous events are the Chariot Race (on or near Groundhog Day) and the Slave Auction. The LGMB and the BFC are two very important wings of the Eng. Soc. No official opening ceremony in Toronto is complete without the Band and the Cannon. The BFC can be found performing numerous acts of harmless fun around campus. Another very important part of the Eng. Soc. is the Stores. This is where students get their Skule supplies at reasonable prices. It's a non-profit set-up so take advantage of it. details on all these things can be found in other sections of this handbook.

The not-so-visible activity of Council, but one which has the greatest importance and ultimate impact on your stay here, is the representation Council provides for the members of the Society in relation to all levels of government

and administration within the University of Toronto, expecially at the Faculty Council and Governing Council level. The President and Council's representative to Faculty Council fill the two student positions on the Executive Committee of Faculty Council. Twenty-eight other undergraduate Engineering students sit on the Faculty Council and its committees. This is where the students can have great influence in the way the faculty is administered. It is a responsibility and one that is not to be taken lightly. Questions as to the nature of course content, marking regulations, timetabling, examination proceedures, among numerous others are brough up constantly.



FOR HELP: **FIND OUT!**

Class Club Rep
Class Eng. Soc. Rep
Class Fac. Council Rep
Club Chairman

Eng. Soc. President **Joe Lstiburek**
Faculty Council Rep **Rick Johnston**

Department Chairman
Faculty Secretary **James Gow**
Faculty Ombusdman Committee **(through Mr. Gow)**
University Ombudsman **Eric McKee**

FACULTY COUNCIL

BODY **CONCERNS**

Council: **policy decisions**
Executive Comm: **all matters**
Ombudsman Comm: **appeals**
Examinations: **exams & promotions**
Undergraduate Studies: **courses & programs**
Community Affairs: **society & alumni relations**
Teaching Methods & Resources: **educational development**
Research
Scholarships & Awards
Advanced Standing
Admissions

So you want to be rich. Then how come you're an Engineer? If you look at total lifetime earnings, then be a plumber. You'll save yourself a lot of aggravation, time, and effort. These figures are based on today's rates (i.e. 1975 figures) and retirement at age 65. From **Quest** magazine.

OCCUPATION	LIFETIME EARNINGS	DEGREE OF EDUCATION
Plumber	$1,456,416	Gr. 10 + 4 yrs
Physician	1,441,825	U. grad + 4 yrs + 1 yr intern
Lawyer	1,224,120	U. grad + 3½ yrs + 1 yr art.
Dentist	1,153,216	U. grad + 4 yrs
Elevator Mechanic	1,137,240	Gr. 13
Architect	1,019,080	U. grad
Engineer	**988,760**	**U. grad**
Welder	877,032	Gr. 10 + 3 yrs
Electrician	865,184	Gr. 10 + 4 yrs
Tax Assess. Officer (Accountant)	810,960	U. grad
Truck Driver	720,000	Nil (must be 25)
Real Estate Salesman	540,000	Nil
Clergyman	388,500	U. grad + 4 yrs

Murphy's Laws

Murphy's Law: If anything can go wrong, it will.

Corollary: Whenever it seems that nothing worse can possibly happen, it will.

Theorems

1) Nothing is ever as simple as it seems.

2) Everything always costs more than you can afford.

3) If you fool around with something long enough, it will eventually break.

4) If you try to please everybody, someone isn't going to like it.

5) If you explain something so clearly that no one could possibly misunderstand, someone will.

6) It is easier to get into something than it is to get out of it.

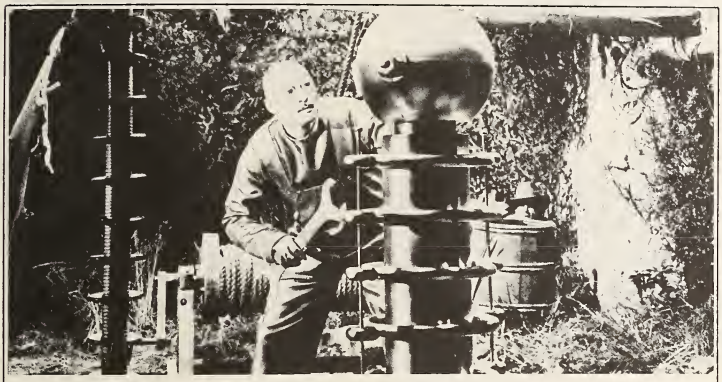
7) Whatever you want to do, you always have to do something else first.

8) Left to themselves, things will always go from bad to worse.

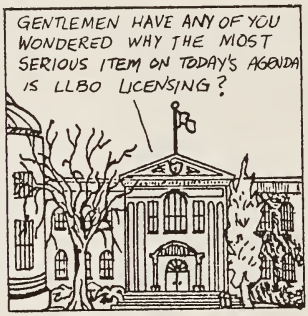
9) Nature always sides with the hidden flaw.

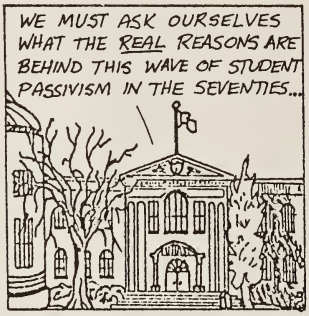
10) Mother Nature is a bitch.

11) If everything seems to be going well, you've overlooked something.



1. **Murphy's Law** — if anything can go wrong, it will.
2. **Patrick's Theorem** — If the experiment works, you must be using the wrong equipment.
3. **Skinner's Constant** — That quantity which, when multiplied times, divided by, added to, or extracted from the answer you got ... gives you the answer; also known as Finnegan's Finagling Factor.
4. **Horner's Five-Thumb Postulate** — Experience varies directly with equipment ruined.
5. **Flafle's Law of the Perversity of Inanimate Objects** — Any inamimate object, regardless of its composition or configuration, may be expected to perform at any time in a totally unexpected manner for reasons that are either entirely obscure or else completely mysterious.
6. **Allen's Axiom** — When all else fails, read the instructions.
7. **The Spare Parts Principle** — The accessibility, during recovery, of small parts which fall from the work bench, varies directly with the size of the part ... and inversely with its importance to the completion of the work underway.
8. **The Compensation Corollary** — The experiment may be considered a success if no more than 50 of the observed measurements must be discarded to obtain a correspondence with theory.
9. **Gumperson's Law** — The probability of a given event occuring is inversely proportional to its desirability.
10. **The Ordering Principle** — Those supplies necessary for yesterday's experiment must be ordered no later than tomorrow noon.
11. **The Ultimate Principle** — By definition, when you are investigating the unknown you do not know what you will find.
12. **The Futility Factor** — No expaeriment is ever a complete failure — it can always serve as a bad example.





3

Who Runs This Place?

The highest governing body within this university is the **Governing Council**. SO WHAT?

Just by reading one line you have become better informed than 90% of the university community. Those who have heard of Governing Council have only a vague idea what it does (and no one knows just how it operates). Simply, any matter of importance at the University of Toronto is ultimately subject to Governing Council approval. This body generally makes its decisions in total isolation from the university community. The eight student governors are hard-pressed to adequately represent their 40,000 constituents. Therefore, in order to find out about G.C. or to have input into its decisions you must turn to one of your student organizations. S.A.C. (they've got to be good for something!) has a commission entirely devoted to University Government. They are anxious to answer your questions. As well, your Engineering Society is attempting to find out who the hell actually runs this joint. If you want to help with this formidable task start bugging someone in the Eng. Soc. offices.

The Faculty of Engineering is run, with a little help from the Colonel, by the **Faculty Council.** While all profs and thirty undergraduates

(plus assorted other riff-raff)

are members of Council, attendance records show that at any given meeting students approach a majority. Since this Council deals with such minor matters as who gets into and out of Engineering, and everything that happens in between, students have a very strong voice in the affairs of this faculty. Also there are students on almost all committees of Council where the nitty-gritty work is done. The strength of this student voice means that you must be very careful electing your class representatives to Faculty Council;

they can do much good or a lot of damage.

Since the Faculty Council enforces the rules and regulations of this faculty you may become involved with it whether you want to or not. If you don't feel that some rule should apply to you, then you should petition the appropriate committee of Faculty Council. (While the rules are strict, individual exemptions are carefully considered.) If some committee makes a decision concerning you which does not seem fair then submit an appeal to the **Faculty Ombudsman Committee**. When these people are convinced that some injustice has been done you will have a strong voice on your side.

In any case, when you find yourself in a bind, there are several people whose job it is to help:

i) If it involves a prof talk to him; it is best to clear up a misunderstanding at the source.

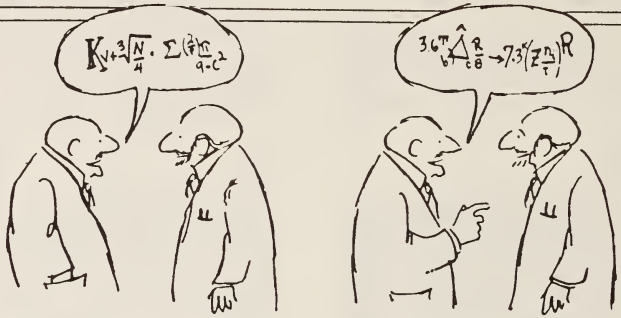
ii) Your department chairman or student advisor will lend a sympathetic ear.

iii) The Faculty Secretary will answer questions and advise you on the procedures of petitions and appeals.

iv) The Deans: they are busy men, but they care about students.

More important there are people who just want to help. Your class rep to Faculty Council can find the best place to solve your problem. In the Engineering Society you will find that one of the most experienced petitioners in the faculty is the President, Joe Lstiburek. There is also a Society representative to Faculty Council, Rick Johnston, who will be anxious to help (honest, that's why I am writing this).

At the department level there is an organization involved in the routine operations of each department. Student involvement varies with departments and is poorly understood in general. If you bug the right people, class club reps, club chairmen and various Eng. Soc. hacks, then someone will have to find out what's going on.



Eng Sci Entrance Exam

Instructions

Read each question carefully. Answer all questions. Time limit: 4 hours. Begin immediately.

History

Describe the history of the papacy from its origin to the present day, concentrating especially, but not exclusively, on its social, political, economic, religious, and philosophical impact on Europe, Asia, America, and Africa. Be brief, concise, and specific.

Medicine

You have been provided with a razor blade, a piece of gauze, and a bottle of Scotch. Remove your appendix. Do not suture until your work has been inspected. You have fifteen minutes.

Public Speaking

Twenty-five hundred riot-crazed aborigines are storming the classroom. Calm them. You may use any ancient language except Latin or Greek.

Biology

Create life. Estimate the differences in subsequent human culture if this form of life had developed fifty million years earlier, with special attention to its probable effect on the English Parliamentary system. Prove your thesis.

Music

Write a piano concerto. Orchestrate and perform it with flute and drum. You will find a piano under your seat.

Psychology

Based on the knowledge of their works, evaluate the emotional stability, degree of adjustment, and repressed frustrations of each of the following. Alexander of Aphrodites, Ramses II, Gregory of Nicia, Hammurabi. Support your evaluation with quotations from each man's work, making appropriate references. It is not necessary to translate.

SKULE Survival

Sociology

Estimate the sociological problems which might accompany the end of the world. Construct an experiment to test your theory.

Engineering

The disassembled parts of a high-powered rifle have been placed on your desk. You will also find an instruction manual printed in Swahili. In ten minutes a hungry Bengal tiger will be admitted to the room. Take whatever action you feel appropriate. Be prepared to justify your decision.

Economics

Develop a realistic plan for refinancing the national debt. Trace the possible effects of your plan in the following areas: Cubism, the Donatist controversy, the wave theory of light. Outline a method for preventing these effects. Criticize this method from all possible points of view, Point out the deficiencies in your point of view, as demonstrated in your answer to the last question.

Political Science

There is a red telephone on the desk beside you. Start World War Three. Report at length on its socio-political effects, if any.

Epistemology

Take a position for or against truth. Prove the validity of your position.

Physics

Explain the nature of matter. Include in your answer an evaluation of the impact of the development of mathematics on science.

Philosophy

Sketch the development of human thought and estimate its significance. Compare with the development of any other kind of thought.

Astronomy

Define the universe. Give three examples.

General Knowledge

Describe in detail. Be objective and specific.

Can't We Learn?

by Dave Pike

It is the avowed policy of this faculty that the undergraduate should be subjected to a workload for the completion of which there does not exist sufficient time. The rationale behind this incredible resolution is that such a pressure system approximates real professional situations and forces the student to organize his time to maximize his benefit time quotient.

It isn't very convincing.

The Engineer who works consistently, long and with maximum efficiency, can complete 90-95% of his labs, problem sets, and sundry assignments in a manner designed to produce a consistently comfortable pass. What is lost in the process is an understanding of the situation that is under analysis. What is produced is tons of scrap paper carrying a handful of potentially meaningful formulae.

Caught up in a whirl of projects, all featuring prominently a specific due-day and hour, the student invokes the most efficient organization of time: he attempts to meet all deadlines. That with no deadline falls into the cluttered file of one-time good ideas. Simply staying within sight of the clearing beyond the mathematical haze occupies all available time.

Ever and anon it is suggested to the hapless and helpless Engineer that certain supplementary reading would be enlightening, that a careful consideration of an alternate method would prove fruitful, that an investigation of a theoretical side-track could produce valuable results. And each of these suggestions falls by the wayside for the sake of surviving tomorrow's classes. Of course, if the student has managed to ruthlessly axe a certain number of his "essential assigmments" and thus keep just a few days ahead, the 'cause' is survival three days from now, and maintenance of this precious margin of time itself.

So upon the Skuleman is foisted a cruel choice. He endures this ordeal with a gleam of hope that he can learn that which is theoretically available here. But to be an Engineer (my BASc says so) is to choose to survive (read 'pass'): to refuse to learn.

I object. I object for the students who are not equipped for the mental anguish. I object for the students who are denied the opportunity to find intellectual satisfaction. I object for the Skule that denies itself the untapped undergraduate academic potential. And I object for the profession — my profession — that is denied insight, creativity, and vigour.

SKULE Survival

The Engineering profession has learned to accept that new Engineering graduates cannot be expected to bring any skills or special knowledge to a job. It has learned to accept instead a willingness and ability to learn. There is no other profession which would tolerate such a condition, yet we are forced to accept it as long as our schools must be a shock chamber between the peasants and the profession.

Of the time that should be spent on academic pursuits. the first 80% is basic tools and math. The rest is insight and a full understanding of the basics. We are trapped into completing the first 50%. What is lost are the implications of its usefulness. What is lost is the question: what if? What is lost is the carefully researched and reasoned answer. What is lost is intellectual inquisition and pursuit.

The workload policy is one reason why we can produce graduate mechanicals who don't know what type of machine would be suitable for a given situation, graduate chemicals who don't know if the mixture of two materials is dangerous, graduate electricals who don't know the difference between amps and micro-amps and graduate civils who can't build a brick wall.

Give us a chance to think; you may even find that we can.

from Toike Oike

Places to Feed

Oh dear... It's that time of day when hunger hits and the pocket book shies itself into a **very** small corner of your pocket. Or into the position where you must learn ...

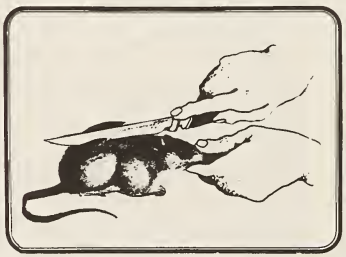
HOW TO COMMIT A DULL TREE

Where, might you ask, is a good (relatively) place to find something to absorb the juice which is leaking into your stomach and causing that overwhelming desire to feed? Well, here, for the staunch of paunch, are some of the local feeding places, and a brief indication of what is **unique** about them.

Slightly south of our Engineering buildings is a strip of greasy spoons (a favourite at the **Elm**), starring **Grads**, the **Elm**, and **Students**. These places are fine if you're semi-suicidal or not too bright, or merely desperate, since from experience we have found that it is not humanly possible to tame any meat-like object thrown at you. Thus, for engineers these places come highly recommended.

Of the three, the **Elm** is usually the least deadly, especially in small doses. The fish and chips are the best choice for the squeamish, since they're **supposed** to be greasy.

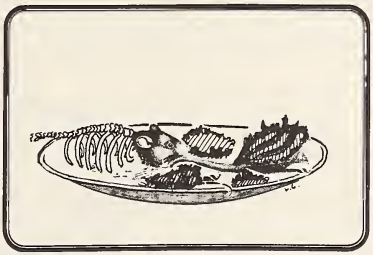
For the more normal folk there are other "food" distributing outlets surrounding the campus, including:
Harvey's — less greasy (slightly)
Mr. Submarine — forms a lump of hardness 9
Swiss Chalet — How can they do that to a poor defenceless chicken?
Pizza Patio — dry but not a bummer



Frank Vetere's — a bummer
Mama Giovani's — a disco bummer
Macdonald's — what need we say?
Park Plaza (Murry's) — decent (relativley)
Toby's — a yummy variety of burgers
Med Sci cafeteria — a cafeteria
Innis — Innisy eats
Grad Students' Union — edible, sometimes
New College — NO NO NO nooooo ooooooooo
Hart House Great Hall — actually the best on campus (shudder)
Huron Groceteria — eat quickly
Fran's Basement — all you can eat spaghetti and more than you want to, but cheap wine.
Fran's — decent, unless you like food (go back to the basement)
Ali Baba — some like it hot, and here's where they belong
Mother's — reasonable subs, sweet or hot
Peking — you know those rumours your hear about Chinese food? ...
Tel Aviv — fallafels that stay with you
Yung Lok — quite good food at reasonable prices
the place just south of Yung Lok — even better, sometimes
United Dairies — Kosher food (no real meat) with no antidote required
Switzer's — another quasi-kosher restaurant, this time with meat and catering
Shopsy's — more of the same
LCBO — The Engineers' food store... your best bet

....and there's more out there lurking off campus waiting for **you** to wander inside. Better lay in a heavy stock of seltzer, or better yet, learn to fast.

And if you plan to spend a lot of late nights away from home, may your soul rest in peace.



How to Drink Beer

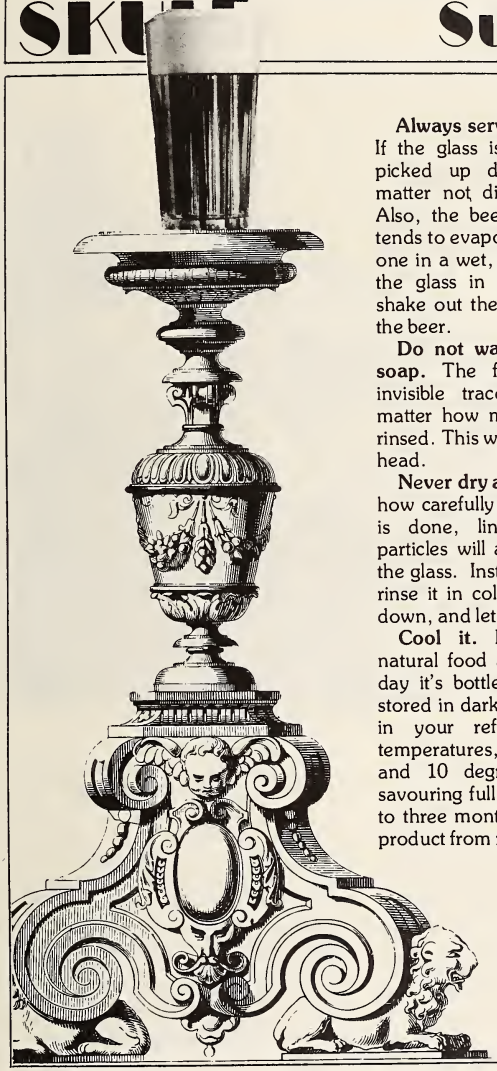
Unlike wine beer lacks
a mythology but relates
to a legend of the wine-god
Dionysius fleeing from Mesopotamia
because people there drank only beer
It is the common thirst-quencher
and mood-changer of ordinary men
laborers and pyramid-builders
has no sophistication
altho clear mountain water
in its 18 karat gold gleams
It is the precursor of wine
god of all high places
glimpsed from under tables
untouchable by cork-sniffers
unreachable to phonies
known once and not again

Many inveterate beer drinkers blissfully go through life enjoying their favourite beer, unaware of a variety of fact and fancy pertaining to the "golden nectar of the gods". The following points of information should enrich the knowledge or enhance the drinking pleasure of beer lovers everywhere.

There is a right way to pour beer. Some people pour down the side of the glass. They say it keeps the head down — and it does. But brewers, experienced bartenders, and other experts on the subject agree that a beer head is highly desirable. A good head imprisons the carbonation and retains the vitality of the beer while it is in the glass; it gives a cleaner taste, a smoother, more drinkable beer.

The following pouring method is correct: Hold the glass upright on the table and allow the beer to splash down the center of the glass. If the head is building up too rapidly, decrease the flow and let it slide down the side of the glass. If the head is not growing fast enough, turn the bottle perpendicularly and allow the remainder to plop down and froth around.

Beer glasses should be used only for serving beer. Do not serve beer in glasses that have been used for serving milk, tea, coffee, soda, or any other liquid. In all probability they will contain residues of fat on the inside, which will drastically cut down on the beer head.



Always serve beer in a wet glass. If the glass is dry, it has probably picked up dust or other foreign matter not discernable to the eye. Also, the beer head in a dry glass tends to evaporate more quickly than one in a wet, frictionless glass. Rinse the glass in pure, cold water and shake out the excess before pouring the beer.

Do not wash a beer glass with soap. The fat from soap leaves invisible traces on the glass, no matter how much it is cleaned and rinsed. This will cut down on the beer head.

Never dry a beer glass. No matter how carefully and thoroughly drying is done, lint and other foreign particles will adhere to the inside of the glass. Instead of drying the glass, rinse it in cold water, turn it upside down, and let the water drain out.

Cool it. Beer is a perishable natural food and flavour is best the day it's bottled. All beer should be stored in dark, cool areas, preferably in your refrigerator. Refrigerator temperatures, which are between 5 and 10 degrees F, are ideal for savouring full beer flavour. After two to three months, brewers recall their product from retail outlets.

3

The Beer Family

Beer is the generic term for all fermented malt beverages brewed from malt, hops, yeast, and water. The word " beer" is generally used for both ale and lager, both of which are brewed basically from the same materials: malt made from selected Canadian barley, water, hops, and occasionally small proportions of other materials such as rice and corn.

But there are differences in the brewing of ale and lager which account for the distinctly different taste of the two types of beer.

Lager

The name comes from the German verb *lagern*, to stock, to store. It is usually lighter in taste than ale, although of the same alcoholic strength. Less hops are used than in ale. As with ale, rice or corn is sometimes added, usually a larger proportion than in the case of ale.

Because a "bottom fermenting" yeast is used, the yeast settles to the bottom of the fermenter when the fermentation is completed. The lager itself must be drawn off, leaving the yeast in the tank — unlike an ale fermentation, where the yeast is skimmed off the top.

Normally more hops are used in European than in Canadian lagers.

Ale

Ale usually tastes stronger than lager because more hops are used, and in some instances a very small percentage of rice or corn. The fermentation is done with "top-fermenting" yeast.

Porter and Stout

Generally, no disinction is made

between these two. They are traditionally fermented as ales are, using ale yeast. In addition to the ale ingredients, varying proportions of roasted malt or barley are included, or barley and various sugars. Sometimes malted or flaked oats are used.

In Canada, alcoholic content of stouts and porters is the same as ales and lagers; but outside Canada, particularly in the United Kingdom, alcoholic content of stouts and porters varies widely.

Bock Beer

Traditionally brewed during the winter for the spring market, The origins of the name "Bock" are shrouded in the mists of history. For some reason it is associated with the symbol of the goat. The usual beliefis that the name comes from the famous medieval brewing town of Einbeck in Germany. It is a heavy, dark lager beer, full, rather sweet, and hoppy in character. Its dark colour is normally obtained through the use of high-coloured malts.

The Snob Guide to Beer Appreciation

Savouring the sound, sight, feel, taste, and smell of beer. *Beer is traditionally gulped, quaffed, and swigged, But it deserves better treatment. It can be sensed, sipped, and savoured. A connoisseur will bring all five senses into play in deciding whether a beer is good, bad, or indifferent. Here's the refined way to approach a glass of beer.*

1. Listen to your beer. Hold your ear to the glass. Tune in to the head. A crackling sound can be heard. The less you hear, the better the foam quality of the beer. If the spectacle of your ear in your beer attracts attention, ignore it and look at your beer.

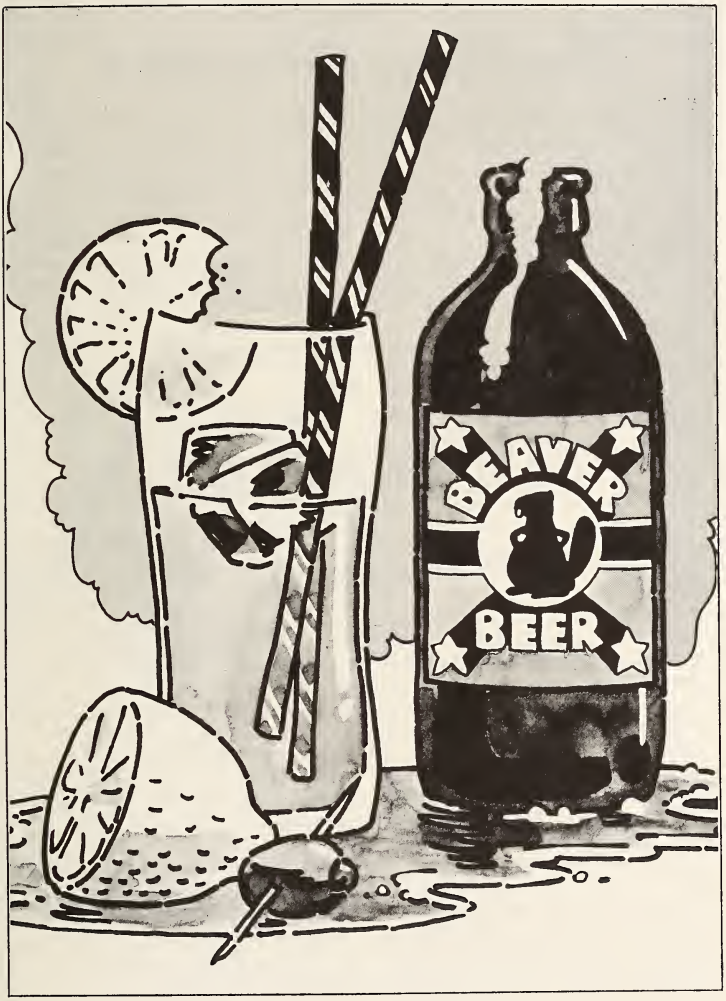
2. Look at your beer. Beer should also be drunk with the eyes. Oxygen causes wondrous colour changes in beer. Observe the spectacle. The process is all rather complicated but the source of much visual enjoyment. A redox indicator in your brew will result in a spectral orange hue mixed with black creating a yellowish-brown tint. By way of reduction, your glass of beer can take on a green tinge, shifting the colour to yellow-green. Then, further oxidation can bring on a touch of red.

3. Touch your beer. With your mouth that is. Beer contains astringent substances such as tannins, alcohol, and sulphates. They extract water and stimulate the mucous membrane of the oral cavity. Thus the beer is felt to be dry, empty, or full-bodied.

4. Smell your beer. The aroma of your beer is the most decisive factor in determining its quality. When you pour, allow a head... that's how you release the aroma. Almost all blemishes in beer become noticeable in its smell. There are seven different aroma groups: camphorous, musky, flowery, minty, ethereal, stinging, and putrid. Hopefully your glass of beer will contain a delightful combination of only the first five in the group.

5. Taste your beer. By now you're probably dry. So swallow and savour the taste of your beer. All four perceptions of taste, sweet, sour, salty, and bitter, can be found in beer. One or more of them will be predominant in your glass of brew, depending on whether it's ale, lager, porter, or stout.

6. CHEERS.


BEAVER
BEER

The New Cafeteria

The loss of the Engineering Annex Cafeteria to the UTCC will be received with mixed reactions by anyone who has ever experienced the place. The quality of food was just this side of Egyptian cammel dung and the decor was early washroom, but the place was convienient and served as the unofficial common room for the Faculty.

There is, however, good news on the horizon. The new cafeteria in the old Metro Library Building promises to serve edible food in a convient location and in surroundings that do not induce one to vomit.

The cafeteria will be located in the south portion of the building, adjacent to the Engineering Society Common Room on one side and the Engineering Science Common Room on the other. The cafeteria and the Eng Soc Common Rooms combined are so large that the entire Annex, three floors and all, can fit inside them. In addition, the decor puts the Great Hall in Hart House to shame.

The cafeteria is scheduled to be in operation not later than the start of the third week of classes. The hours of operation are tentatively scheduled to be from 7am to 3pm daily.

The planned menu will include, in addition to the standard hamburgers and hot dogs, hot beef saandwiches carved to order, stews and soups served in large open kettles, sandwiches made to order, salad plates, a self-serve salad bar where you can build your own salad, and coffee, milk, and natural juices. This operation will require a full time staff of four unifomed hostesses (nudge, nudge, know what I mean?). There will be two cashiers to cut delays.

This is quite a substantial improvement over the dismal

cafeteria service provided in the past. Much of the credit for this improvement should go to the boys at Simcoe Hall, the people from Canada Catering, and the individual who arranged the Sandford Fleming Fire (he obviously ate at the Annex regularly).

Oh, for those who might find the switch to edible food a shock to an already established life style, there will also be the standard vending machines that spew out the familiar, uniformly bland, processed camel dung in the off hours.

ACROSS CANADA

BEER AT ITS BEST

4

The Skule Year

Once again, the Engineering Society has outdone itself by arranging a most gruelling schedule of events. The following is a list of the activities where Skulemen will be able to release their pent-up frustrations and tensions in the coming Skule year.

Orientation day — Sept. 6

After registration, boring speeches, an LGMB concert, and the English Facility Test, F!rosh will find out what role Skule plays on campus. The activities planned include some general shit-disturbing at other colleges, a major encounter with SAC, a visit with Bill Davis, a **free pub**, and, to wind it up, everyone follows the LGMB to a Blue Jays' baseball game.

Nursing Pyjama Party — Sept. 8

Every year, the nursing faculty arranges a sleep-over for their fresh women, and naturally Engineering deems it appropriate to participate in the event. Beware of anyone in your class who doesn't show up here.

First Football Game — Sept. 10

At 1:00 pm, the LGMB officially opens the bar at Varsity Stadium for the start of another Football season. All 2,400 Engineers and their escorts will be on hand to cheer the Blues as they demolish Waterloo. If you can still see the field, you will be amazed at how the LGMB rotates the field 180° during its half-time show. Bring your own refreshments and hard hat.

Hart House Farm — Sept. 11

It is an Engineering tradition for Frosh and Upperclassmen to get together at Hart House Farm on the first weekend of Skule to do a little work, drink a lot of beer, swim and play foot(10 feet in diameter)ball. **All Frosh will attend** or be put on the Scavenger Hunt list, or worse. Joe Lstiburek claims he will not be thrown in the pond this year.

Eric: I will drop the remainder of article off tomorrow at 6:00 PM. — CHRIS

First Toike — Sept. 15

This is the first Toike of the year, and it will be out on September 15. It will be unlike any other Toike that ever existed or will exist.

Frosh Dance — Sept. 16

This is the first dance of the year and features a live band, an LGMB concert, and a Hard Hat contest. F!rosh, note that this dance is **not** only open to Skule Freshmen, Freshwomen, and Nurselettes. Therefore there will be plenty of competition for nubiles from upperclassmen.

Shinerama — Sept. 17

This is a fund-raising activity for the cause of Cystic Fibrosis. Last year, the Chiropractors "cleaned up" but this year it will be Engineering and Nursing at U. of T. that raise the most money, in time for the football game against Laurier at 2:00. Following the game, 2,401 Engineers will be at the Nursing Pub for the night.

Special Event — Sept. 18

Those who attended Shinerama and/or got lucky at the Nursing Pub will be really in luck today.

SKULE Activities

4

Scavenger Hunt and Picnic — Sept. 24

The scavenger hunt provides ample opportunity for F!rosh to familiarize themselves with the campus grounds and to make use of their abundant ingenuity to obtain unique and much-sought-after articles such as Trish Ball(the Nursing President)'s bra. After a winner has been established, everyone follows the LGMB for a street car concert to High Park for a picnic.

Slave Auction Oct. 5

If you can't find out what this is, don't bother coming. Bring your $2.00 and a hard hat.

SKULE Activities

Oktoberfest — Oct. 7

The biggest and wildest event of the year, Oktoberfest is just what you think it is, besides being the year's biggest drunk and orgy. This spectacular festival takes place on Front Campus, starts at 1:00 pm, and runs until 1 am. Don't miss it. (Get your tickets early.)

Homecumming — Oct. 15

The festivities begin on Friday, with the building of the Skule Float for the parade and drinking beer. The float building and drinking beer continues until 9 am. at which time the parade begins. After a tour of downtown Toronto and drinking beer, the floats parade around King's College circle while the selected judges make their choice of the best float. Engineers are traditionally disqualified for being excessive and drinking beer.

There are a host of other activities that you will attend at Skule, such as the S-Dance, The Car Rally, the Hockey games, Rites of Spring, Toike make-ups and Skule Nite, as well as the ones we needn't talk about here.

If there are any activities you believe should be included in this list, or if you want to help run them, please contact **Chris Webber**, Vice-President Activities c/o the Engineering Society.

SKULE Activititieitis

Social Committee

Learn the art of socializing!

A well established, dynamic non-profit organization has an opening for an outgoing, conscientious, well-groomed and housebroken individual in a vital and responsible position: the **Social Committee Chair** (or couch).

Irresponsibilities include arrangement of the annual Car Rally, full liability for Cannonball, planning miscellaneous dances and gala social affairs, organization of Pub Crawls, coordination of a 'McGill' weekend, making tea, and taking care of David.

Benefits include an opportunity to meet people, the satisfaction of a job well done, all the tea you can drink, control over an enormous budget (this is the big times — you can lose thousands if you try), and the option of remaining at the beautiful St. George campus of the University of Toronto for an extra year (or the option of leaving the beautiful St. George campus of the University of Toronto three years early).

Serious applicants only, please.

For more information, contact Jan in the Stores.

Skule Nite

Who would have believed that Engineers had so much talent? Once again they have proven themselves vastly superior in the field of acting, as anyone who saw Skule Nite 77 will attest to. Skule Nite, a rollicking, musical commedy, is written, directed, and performed by Engineers (and Nurses of course), and it's hard to say who has a better time, the audience or the cast. Their hard work is rewarded by the numerous, infamous **Skule Nite Parties** and after performances, one can catch a replay on some of the song and dance numbers by a slightly unsteady cast at a nearby drinking hole.

Booze, Broads and Belching (Wine, Women and Song for the more sophisticated) is what Skule Nite is all about, so cum out and audition or just cum out and watch the Engineers in **Action**.

4

Shinerama

Nurses plus Engineers ...

a) Have you ever shined shoes?
b) Have you ever worn shoes?
c) Do you know what shoes are?

Even if you answered "No" to all of the above, you are still eligible to be a part of Shinerama. Shinerama is a nationwide campaign to raise money for Cystic Fibrosis, a serious children's disease affecting the mucous glands. All across Canada, university students buff down on the streets of their cities, shining shoes, making friends, collecting money, and having a lot of fun on their 'Shining Day'. The Engineers and Nurses of U of T have joined forces for this event and we are determined to outshine the Canadian Memorial Chiropractic College who currently hold the trophy for largest amount raised, (achieved through a lot of arm twisting).

So everyone, (especially Frosh) start shining your hard hat and get ready for a great time helping Shinerama "Give a Child the Breath of Life."

Keep on Shinin'
Poco
Shinerama Engineering Coordinator

Boat Race Rules

I - OBJECT:

To drink eight or ten consecutive containers of beer in minimum elapsed time.

II - TEAM:

Each team shall have four or five members (depending on league), designated Lead Man, Second Drinker, Third Drinker, (Fourth Drinker) and Anchor Man.

III - TEAM ATTIRE:

Team dress is at the discretion of the team. However, novices to the sport are advised that sponge caps and bibs are handy items of apparel.

IV - CONTAINER:

The official boat racing container shall be the legislated LCBO 8 oz. draft glass. Should none be available, a suitable 8 oz. container may be substituted in its stead.

V - PROCEDURE:

The team shall position itself in front of a table on which there are two containers of beer directly opposite each team member - ten containers in all.

The referee shall ask the team if it is ready, and, when so, pronounce *1... 2... 3...* When *three* is uttered, the Lead Man shall drink the

contents of his first container, touch the empty container to the table, and then invert the container over his head. As soon as the Lead Man's container touches the table, the Second Drinker may pick up his first container, drink its contents, touch it to the table, and invert it over his head. The Third Drinker commences when the Second Drinker's container touches the table.

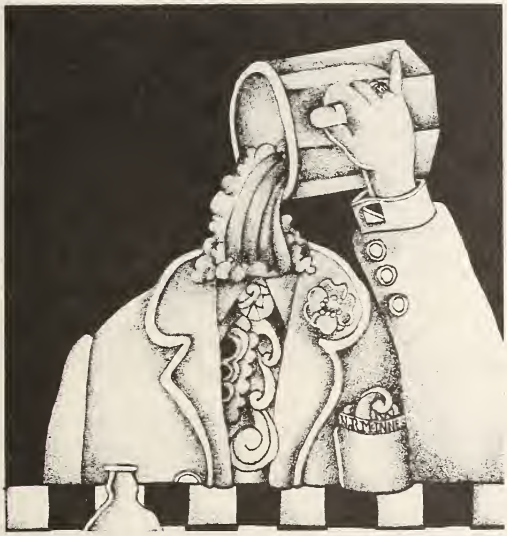
And so it goes, until the Fourth (Third) Drinker's container touches the table. The Anchor Man then drink the contents of his first container, touches it to the table, raises his second container and drinks its contents, then touches the second container to the table, and then inverts both over his head. When the Anchor Man's second container touches the table, the Fourth (Third) Drinker drinks the contents of his second container, and so it goes until the Lead Man touches his second container to the table.

The elapsed time for the race shall start with the utterance of the *"three"* by the referee, and end when the Lead Man's second container touches the table.

VI - DISQUALIFICATIONS:

A team shall be disqualified for any of the following:

a) non-continuous drinking - if any team member cannot maintain flow



of liquid from container to mouth, the team shall be disqualified.

b) If any team member touches either of his glasses (or other glasses) prior to the stipulated time, (see PROCEDURE) the team shall be disqualified.

c) Should any team member drink less than 90% of the contents of either of his containers, the team shall be disqualified.

VII - REFEREES:

There shall be a maximum of three referees, and a minimum of two. One referee shall start the race, (in the manner indicated in PROCEDURE) and watch for any infractions leading to disqualification. It is also his responsibility to ensure that all containers are "topped" up prior to the start of the race. The others are to time the race.

Upon completion of the race, the referees meet to discuss any infractions, and, if none occur which will disqualify the team, then announce the official time of the race. The decision of the referees is final, and may not be appealed.

NOTE: Gross and/or indecent conduct on the part of the team members **shall not be tolerated**. This is a gentleman's sport!

The best recorded time to date is 12.0 seconds by Waterloo's ***Golden Guzzlers.***

Championship Chariot Race

4

1. Chariot.

(i) at least two accessible wheels attached to the chariot with no human contact ever, on the grond throughout the race from start to finish. (minimum size of wheels is 6 (six) inches diameter).

(ii) no sharp protruding points or other objects dangerous to contestants i.e., cutting torches, barbed wire, electric shockers, guns, knives, bombs, etc.

(iii) no maximum weight limit. Minimum weight of chariot 30 (thirty) pounds (without driver).

(iv) human propulsion only (no gas motors, etc.).

All chariots must be pointed out to competition by judges at start of race.

2. Driver:

Driver must be (a) human (male or female human) or (b) a member of Engineering Science with an official student number at the University of Toronto. Driver must be over 18 (eighteen) years of age, or under 17 (seventeen) and accompanied by an adult. Driver must be contained within the chariot throughout the entire race from start to finish. Driver may not propel himself or chariot during entire race from start to finish. Driver must be presented to judges before race by appropriate chairman or representative.

3. Pushers and Pullers:

Only 8 (eight) allowed. All must be human males and/or human females.

4. Blockers:

Offensive and defensive — no limit. All must be human males and/or human females.

5. Offence and Defence.

Rule 1(ii) applies to all contestants as well as chariots. It is hoped that contestants will abide by the intent of

this rule, which is designed to prevent loss of life, limbs, eyes, masculinity (or femininity), etc.

5a. Anyone using axe-handles, knuckle-dusters, bike chains, etc. shall automatically bring the disqualification of his or her chariot. Blockers must not carry dangerous objects such as materials of metal, glass, wood, or plastic. Biodegradable materials (two years) such as eggs, tomatoes, watermelons are permissible. No aerosol cans may be carried by anyone during the race. No stink bobms, smoke bombs, flames, etc, may be used by contestants or attached onto chariots. All contestants are reminded to behave in a sportsmanlike or sportswomanlike manner (like in NHL Hockey games).

6. Course:

On the main campus between the lines joining the markers (refer to diagram).

7. The Race:

The race shall consist of one complete running of the course in a counterclockwise direction.

8. The Time:

The Race shall commence at approximately 12:45 p.m. The race shall be started by the roar of the **MIGHTY SKULE CANNON**.

9. Winner:

The first chariot crossing the finish line with at least two wheels attached to the chariot and touching the ground, and still capable of rotation, and a driver still breathing and as human as he or she was at the beginning of the race, will be declared the winner, if it meets the the following qualifications. To qualify to win, the chariot must:

(a) complete the course as laid out by the judges.

(b) cross the finish line with at least two rotating wheels attached to the chariot and touching the ground with no human contact or help.

(c) have a charioteer who has been contained in the chariot all the time it has been moving. A chariot without a charioteer must stop until it retrieves its charioteer. It may only retrieve charioteer by going backwards relative to course direction.

(d) the charioteer who has been contained in the chariot at the sound

of the **MIGHTY SKULE CANNON** and who has been declared by the owners of the chariot as charioteer to the judges before the race, must be the charioteer at all times throughout all of the race, and when crossing the finish line set out by the judges.

(e) the charioteer may not move more than three feet on the ground or in the air if he or she is not contained in the chariot during the race between start and finish. For the charioteer to move any farther, he or she must be back into (his or her original position at the time of the start) the chariot.

10. The Prize:

The winning team shall recieve the venerable *J.P.Potts Memorial Trophy* plus some other unknown prize.

11. Inspection:

The chariots shall assemble on front campus at 12:30 sharp for the inspection by the judges. Nothing can be added to or subtracted from the chariot after inspection.

Each course may enter one Chariot which must be presented to the judges by the Club Chairman. For the purposes of this rule, the First Year Chairman shall be in charge of the First Year Entry. (First Year can enter only one chariot). First Year Engineering Science must defend or run the First Year Chariot.

12. Disputes

The judges are hereby declared to be infallible. Consequently, all arguments shall be decided by the judges, whose decisions shall be final. (See *Rise and Fall of the Roman Umpire*).

13. Waivers

All blockers, pullers and charioteers must sign the waiver before the race. Anyone refusing to sign and then races, does so at his own risk.

14. Apparel

All contestants should wear protective head gear.

15. Loans

All chariots stolen or otherwise removed shall be returned by 10:00 a.m. on the day of the race to their owners or the theiving team will be disqualified.

16. Judges

The judges consist of the Blue and Gold Chairman and two other persons chosen by the Blue and Gold Chairman. The judges must be fourth year students of the Faculty of Applied Science and Engineering at the University of Toronto and they must not be of the same course.

The judges can disqualify a chariot even if it finishes the race first, if it has broken any of the above set rules. The winner can be declared any time after the race, but before June 1978. Once the winner is declared, no change can be made.

The rules can be changed 48 hours before the beginning of the race, by the Blue and Gold Chairman only.

The judges will accept all bribes cheerfully.

Skule Spirit

5

Engineering Hymn

CHORUS: (To be sung after every verse)
We are, we are, we are, we are, we are the Engineers,
We can, we can, we can, we can demolish forty beers,
Drink rum, drink rum, drink rum, drink rum and come along with us,
For we don't give a damn for any damn man who don't give a damn for us!

Godiva was a lady who through Coventry did ride,
To show to all the villagers her fine and lily-white hide.
The most observent villager, an Engineer of course,
Was the only one to notice that Godiva rode a horse.

Said she, "I've come a long, long way and I will go as far,
With the man who takes me from this horse and leads me to a bar."
The men who took her from her steed and stood her to a beer
Were a blurry-eyed surveyor and a drunken Engineer.

Godiva was a lady well-endowed there was no doubt,
She never wore a stitch of clothes, just wound her hair about,
The first man ever made her was an Engineer of course,
But on just one beer an artsie queer once made Godiva's horse.

My father was a miner from the Northern Malamute,
My mother was a mistress in a house of ill repute,
They kicked me out at tender age and never shed a tear,
"Get out of here, you son of a bitch, and join the Engineers!"

An artsman and an Engineer once found a gallon can,
Said the artsman, "Match me drink for drink, let's see if you're a man."
They drank three drinks, the artsman fell, his face was turning green.
But the Engineer drank on and said, "It's only gasoline!"

I happened once upon a girl whose eyes were full of fire,
Her physical endowments would have made your hands perspire,
To my surprise she told me that she never had been kissed;
Her boyfriend was a tired Engineering Scientist.

Sir Francis Drake and all his men set out for Calais Bay,
They'd heard the Spanish Rum Fleet was headed up that way.
But the Engineers had beat them by a night and half a day,
And though as tight as virgins, you still could hear them say . . .

more Hymn about her...

Caesar went to Egypt at the age of fifty-three,
But Cleopatra's blood was red, her heart was warm and free,
And every night when Caesar said good-night at one-o'clock,
A Roman Engineer was waiting just around the block.

Venus is a statue made entirely out of stone,
There's not a fig leaf on her, she's as naked as a bone.
On noticing her arms were gone, an Engineer discoursed,
"The damn thing's busted concrete and it should be reinforced."

A maiden and an Engineer were sitting in the park,
The Engineer was busy doing research after dark,
His scientific method was a marvel to observe,
While his right hand wrote the figures down, his left hand traced the curves.

My father peddles opium, my mother's on the dole,
My sister used to walk the streets, but now she's on parole,
My brother runs a restaurant with bedrooms in the rear,
But they don't even speak to me, 'cause I'm an Engineer.

Joe E. Skule's 100 but he has a heart of gold.
He gave the Meds his Skule-house when it was 94 years old.
The meds were very grateful, but they have problems with precision,
For they use those T-squares and dividers for making their incisions.

On reading Kama Sutra, a guy learned position nine,
For proving masculinity, it truly was divine.
But then one day the girl rebelled and threw him on his rear,
For he was a feeble artsie and she was an Engineer.

The army and the navy men were out to have some fun,
Looking for a tavern where the fiery liquors run.
All they found were empties, for the Engineers had come
And traded all their instruments for gallon jugs of rum.

An Engineer once came to class so drunk and very late,
He stumbled through the lecture hall at an ever diminishing rate.
The only thing that held him up and kept him on his course
Was the boundary condition and the electromotive force.

Now you've heard our story and you know we're Engineers,
We love to love our women, and we love to drink our beers.
We drink to every fellow who comes here from far and near,
'Cause we're a WE'RE A HELL-OF-A, HELL-OF-A, HELL-OF-A, HELL-OF-AN ENGINEER!!!

SKULE

Spirit

BFC

HELP WANTED
BFC Career Opportunity

The **Brute Force Committee** (**BFC**) which does not exist, never has existed, and never will exist is looking for individuals interested in manure manoevering and having a great time. All Engineers (after initiation) are members of the BFC and are thus eligible to participate in all capers. Currently we are offering positions on the BFC executive.

POSITIONS AVAILABLE:
Ministers of: Defence (responsible for — what else — offence); Information; Decorating (responsible for re-decorating; Nocturnal Events; Transportation; Health and Welfare; Ignorance.
Informants — one from each class
Lackeys — other associates

TERMS OF EMPLOYMENT
—varied hours
—this has absolutely nothing to do with Mario's Bakery
—Project locations throughout all parts of U of T
—On-the-job training available, or our learn as you pillage plan.

BENEFITS AND RENUMERATION
—unlimited free booze and sex
—free admission to all Engineering Activities
—you will become infamous
—Dick Tracey watch
—Mickey Mouse decoder ring
—blue hard hat.

APPLICATIONS:
If interested leave your name and phone number in the BFC mailbox on the second floor of the Annex or see **Mark Ewen, da Chief**, in person.

SKULE

Spirit

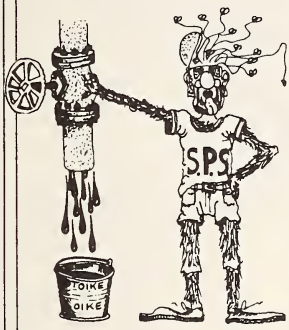
Toike Oike

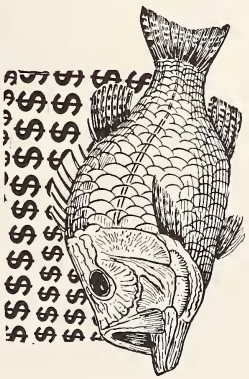
This is attempt number 16 at explaining to all you people too ignorant to know just what the **Toike Oike** is.

If you're a frosh you will get have gotten one of last year's Toikes in your Frosh kit, and should be able to form your own conclusions. If you want a wider sample for a basis of decision, there are eight issues that were distributed in this manner, and someone you know probably got a different one. If you are really interested, there are Toike sets available in the Engineering Stores for $2.00 each, a real bargoon. And it should be pointed out that their sales are not restricted to frosh, so if you upperclassmen missed a few issues last year or need large brown envelopes for some reason.... These are prepared in limited quantities, I might add, so buy yours now to avoid the rush or being disappointed, and who knows it might just pay off some day when they become collectors' items. The most expensive Toike in history is included at no extra cost (no extra cost he says, how about the colour separation on the cover and the senseless waste of colour on the ....)

That's the Toike at the reader level. Now for the writer's level, again form your own opinions. The first and with a little luck the biggest makeup will start on September 10 sometime between 3 and 6, but essentially when the buses get back from Hart Houxe Farm and will continue umtil whenever in the Annex.

Cum out and see what it's like. We provide dinner of a quality approaching that of New College, but I won't say from which direction, and lots of the appropriate refreshments, and if you can't think of anything to write, maybe you can help someone else think of something to write





5

"Gee, you mean to say that just anyone can join the rabble?"

about or just walk around and look dumb, but don't feel dumb because we need all the help you can give us to keep or regain, whichever, our status as the best of the Engineering papers, which is getting to be a little more sharply contested but there is no question that we used to be be. And if you can type or know some jokes or can draw, so much the better.

But if you come out, at the very least you can see your name in print (which is, belive me a real thrill, in fact it's such a thrill that i'm going to put my name in print a few times right now just for the hell of it — **Doug Chmara, Doug Chmara, Doug Chmara** — there wasn't that great?) and who knows, someday you too may achieve the publishing equivalent of halitosis known as being the Toike Editor.

Something for You at Hart House

1977.

Orientation September 28.

5

Compleat Historie of Ye Skule Cannon

Undoubtedly there comes a time in every Skuleman's life when someone asks him about the famous Skule Cannon. Probably the Skuleman cannot say much about the famous Skule Cannon. Possibly the Skuleman wonders why there is a famous Skule Cannon.

Therefore, we proudly present a short ***Compleat Historie of Ye Olde Skule Cannon***.

1: YE REASON FOR BEING

Why, then, is there a cannon? The answer is quite simple. Engineers have always been associated with noise, so what better way than a cannon to symbolize Engineering? (A hydrogen bomb, obviously — but hydrogen bombs cost too much for the noise they make).

Since the time of William the Conqueror, the title 'Atillator' has been given to the man responsible for maintenance of defense works and weapons of war. The title was synonymous with Engineer and the word artillery was probably derived from it. The Atillator was responsible for the number of guns used, their storing, mounting, and PROTECTION. Therefore it is the duty of all engineers to protect the

Cannon from the jealous hands of rival faculties, colleges and any other thieving perverts who would thus desecrate our everlasting pride and joy.

CHAPTER II: THE EARLY YEARS

The first cannons honoured with the title 'Skule Cannon' were those in front of Hart House. In 1929, an engineering caper resulted in the firing of one of the two. This, however, demonstrated only 50% efficiency as both cannons were supposed to blow.

In the early 30's another smaller 'cannon' would appear at Skule festivities and also roar, then mysteriously disappear. The authorities unsuccessfully attempted to track down this will-o-the-wisp. And in 1935, during a slave auction the cannon was fired on the steps of the Old Red Skulehouse with such force that windows were shattered. Once again it quickly disappeared.

In 1936, a machinist working in Civil Engineering was approached by some Engineering Society representatives who unofficially wanted to know if he would make them a cannon. Recognizing the considerable risk he was taking, but also realizing the dangers of students' experiments with explosives in water pipe, he decided to help. And so he fashioned a 10" barrel with a 6" bore from a piece of axle stock, and a base from a pillow block. All of this was accomplished in the four hours immediately preceding the Skule Dinner that evening. This secret too was well kept.

The design of this Cannon was a tribute to engineering technology for it was not only a devastating weapon but it was equipped with built-in camouflage. It did not look at all like a cannon, thus deceiving any would-be kidnappers.

This fearsome weapon was used up until 1950 except for a few times in between 1941 and 1943 when a yacht gun was borrowed (really) from a machinist in the basement of the old Engineering building.

Naturally the unimpeachable appearance and worth of the Cannon was irresistible temptation for anyone who gazed in its direction, but especially to the feeble-minded persons in other faculties.

In 1941 UC stole it but it was instantly returned. And in 1944 UC again stole it. With cries of war and plans for the elimination of the nuisance at the north end of the circle once and for all, but lacking evidence to prove that UC had stolen it, SPS undertook a restrained campaign to regain possession. This ended up as a series of ads in the Artsman's Gazette (sometimes called the Varsity, often called something else).

Naturally this campaign was a failure, as would be any appeal to an artsman's honour. On Feb. 13, 1945, UC Lit announced that the Cannon would be returned at the annual Arts Ball. The Toike, in a fit of editorial passion called it a 'dastardly plot... a black infraction of civil property rights.' The Varsity (unbiased as usual) said it was in keeping with the Good Neighbour policy.

5

However, the hiding place was discovered and the Cannon was forcibly retrieved by a group of intrepid engineers. The Arts Ball was naturally a failure.

The Cannon once again returned to its job of banging at dinners, auctions and little old ladies. Plans were made to have it sent to Japan to assist in the Allied effort. The '49 chariot races approached, and in a spirit of pre-race heckling, the Cannon wandered about destroying everything in its path.

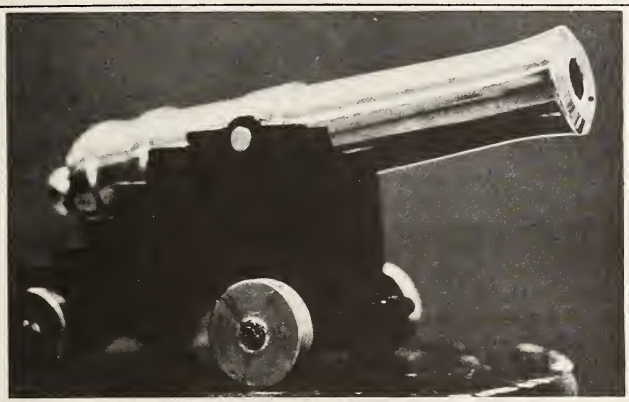
When the first heat was called, an earth-shaking blast reminiscent of Hiroshima and Nagasaki devastated the ears of all. And then it happened.

1077 Meds and Premeds armed with scalpels, tear-gas, thighbones, trained white mice and a squadron of bomber pigeons attacked in a screaming mindless mob. The battle raged back and forth, to and fro, until, finally realizing that they were hopelessly outnumbered, the Meds sent for reinforcements. Then the bomber pigeons finally made their mark on the three engineers, and the Cannon disappeared inho the Meds building.

Negotiations went on for days as the respective values of the Cannon and missing Meds Society president Bob Hetherington were calculated by a federally appointed mediator. After a few days of debate, the Cannon was returned, marred with a new inscription which read, 'Captured by MEDS 5T2, 3 Feb. 1949.'

On Christmas Day, 1949, there appeared on the doorstep of the Engineering Society a beautiful new weapon showing excellent workmanship, engraved 'Skule Cannon'. It seemed Santa had a close friend, a fine machinist who had been working for the Department of Civil Engineering for a long time. In 1950 the Engineering Society honoured W. H. Kubbinga with a scroll extolling his loyalty, courage, and good conduct and made him an Honorary Member in Ye Ancient and Honorable Company of Skule Cannoneers with the rank of Sergeant Artificer.

The barrel was machined from a cold rolled steel bar and had a 2" diameter, 11" length, and 6" bore. The carriage had wheels and was made from heavy steel. The Cannon



weighed 20 lbs. Later on, the wheels and barrel were chrome plated.

One fall night in 1959, artsmen broke into the Engineering Storesin an attempt to steal the Cannon. Believing that it was in a safe, they pushed the safe out a window and carried it away. However, their efforts were in vain and only the leniency of Skule kept them from enjoying an extended vacation (at government expense) in Kingston.

But where artsmen failed, Medsmen succeeded by deceit, as in 1959 the Meds once again made off with our precious tool.

To help publicize the blood campaign, the Skule Cannon appeared at the Blood Donors Clinic. It had been guaranteed safe conduct, so the Cannon was without its usual armed bodyguard and was attended by only two Skulemen. After a long battle the Medsmen overpowered the Skulemen and captured the Cannon.

We retaliated by kidnapping the Meds Society president. They retaliated by kidnapping an Engineer. We retaliated by kidnapping a Medsman, etc., etc. Finally when there were forty prisoners in the basement of the Sandford Fleming building the Engineers arranged an exchange of prisoners. As an added measure of security the Engineers invaded the Meds building, removed the cleaning staff, faculty and other debris, and boarded up the doors and windows. They waited. In the morning the Meds saw the light and returned the Cannon.

In their kindheartedness the engineers gave the Medsmen a replica cannon, and they built a suitable trophy case for their prize. But in a masterful piece of engineering subterfuge this false

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cannon was removed from the case (without scratching the glass) and was promptly destroyed so that our Cannon was once again the only one on campus.

Sadly, in 1959 the score of battles finally took its toll and our faithful Cannon had to be fitted with a new barrel. The new barrel was machined from a stainless steel bar with a length of 12", a diameter of 2", and a 6" bore. The barrel was initialled by Cannoneer Bill Riggs who also oversaw its construction.

In honour of the many battles on which the Cannon accompanied us, the 1950 Cannon was immortalized by placing it in the cornerstone of the new Galbraith Building.

The new Cannon was formally fired for the first time on the front campus in the autumn of 1959 and many Engineers and "others" turned out to witness this spectacular event.

It was next used in conjunction with the L.G.M.B. when the engineers literally stopped the Homecumming show for ten minutes while a presentation was made to an ex-Skuleman. Needless to say, the large crowd (consisting predominately of Arts types) was green with envy at the bold spirit and prowess of the engineers and managed no protest other than a few feeble boos.

In the same year, a group from the B.F.C. (with the Cannon) paid a complimentary visit to the Victoria College Scarlet & Gold Dance. The Middlehouse Four were rendering a tender ballad at the time the gun discharged, and they were literally stopped dead in the middle of a verse

by the thunderous roar which shook Alumni Hall. The B.F.C. then scattered leaflets proclaiming Skule Nite and Cannon Ball.

Also in 1959 on the day of the "At-Home", beatnik and Varsity types sitting in the U.C.'s J.C.R. were blasted. But this time the Skulemen stayed for a complete "Toike Oike", a "Beatnik Go Home" and more leaflets.

In 1963 when, John Adam was Cannoneer, the Cannon Guard was given uniforms for the first time, based on an idea of Dave Morrison. The red-helmeted Cannon Guard came into existence.

Also in 1963 the Cannon was heard in the Great Hall of Hart House, after a brief period of non-use. It was also felt, as the dust and other debris that fell from the rafters would attest.

On Sept. 23, 1964, the Cannon was fired in the Drill Hall at the Engineering Frosh Dance by Cannoneer Doug Macdonald. Linda Edwards, a nurse from Toronto General Hospital, was injured in the right arm by a piece of undisintegrated wadding from the cannon muzzle. She had been standing at least 25 feet from the Cannon compared with the recommended distance of 10-15 feet. She was taken to the hospital for treatment.

Further activities with the Cannon were banned at the Dean's request, pending a series of tests to be carried out by Prof. MacElhinney of the Chemical Enginering Department, to determine a new safe loading and firing prodedure. In October, a letter was received from a law firm stating that it was their intention to file suit to claim damages on behalf of Miss Edwards. At this point, all plans for testing or firing the Cannon were suspended indefinitely.

Late in October, permission was obtained from the Dean and Warden McCulley of Hart House to fire the Cannon in the Hart House quadrangle to be recorded for the L.G.M.B. record, with the stipulation that Prof. McElhinney be there to supervise. The Cannon was fired twice on this occasion with different amounts of wadding each time. Scatter and disintegration patterns for the wadding indicated that the old loading method had been relatively unsafe and that some new method must be devised.

Just after the start of the New Year, the tests were completed and a revised laoding procedure was developed. Black powder, by virtue of its dependability and insensitivity to packing pressure, replaced smokeless powder.

Since no more had been heard from the lawyers, and Miss Edwards and her family said they had no intention of suing anybody, the Dean

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lifted the embargo and the Cannon was fired for the first time in the lower gallery of Hart House at the Lady Godiva Memorial Bash.

On the day of the Skule chariot race, the Cannon was fired in the foyer of the Victoria College library. A strong protest was lodged as there was a funeral in Alumni Hall at the time.

III: THE CANNON STEAL

1967 was the year of Canada's Centennial, but more importantly it was the year of the most infamous cannon steal of all. Capitalizing on a lapse in security, Mike Chapelle and Howie White spirited away the Cannon, spilling nary a drop of blood in the process. These bold fiends were graduate Engineers, as exhibited by their recklessness, fearlessness, and treachery.

The Cannon made its way to the British Isles, bringing sadness where there was joy and misery where there was happiness.

But six brave Engineering grads took it upon themselves to restore the pride of Skule to its rightful owners and tracked it down, all the way to UC (oy) in England. Don Munro (ex-bandleader and Eng.Soc. president) and Fraser Dunford stole into Chapelle's room, and with nary another drop of blood, Skule had its manhood back.

And then it was on to Coventry to pay homage to Godiva. The statue of Godiva was adorned with an Engineering jacket and the gay

Engineers (woo) made merry (Yes, a lovely girl) for they were overjoyed at the safe return of our blessed piece. Chapelle followed them to Coventry, but the Skulemen outnumbered him and he backed off after some unpleasantness.

The Cannon was taken to Wales and then back to Canada. The fact that an engineer had stolen the Cannon was very embarrassing and hence this whole theft was hushed up. The Eng. Soc. had had another Cannon built when they found out that the old one was gone, but the new Cannon was announced to the world to have been built in honour of Canada's Centennial.

The barrel of the new Cannon was 11" long and had a bore of 5". The carriage was mahogany and was equipped with wheels, and the barrel and wheels were chrome plated.

IV: THE MODERN ERA

With a spanking new Cannon, Skulemen's spirits were given a much needed lift (le hic). But it was barely a year old when another attempt was made to snatch our banger, this time by an Industrial Engineer. He was unsuccessful in his attempt and spent the next few weeks as a guest of a Toronto hospital, courtesy of the Engineers.

The '59 Cannon made a brief appearance at the 6T9 Cannon Ball where it was fired by John Adam (Cannoneer '63). The '59 Cannon was then reported to have formed the basis for the annual Skule Cannon Award. However, this was more fiction to cover up the '67 Cannongate.

The year 1971 brought the first gangbang with the Ryerson engineers, to decide who had the better cannon. Needless to say, the Polytechs were sent scurrying home with their feet in their mouths. Not only did we annihilate them in the contest, but we stole their cannon and made off with the distributor wire to their bus.

With Skule's Centennial fast approaching, the Cannoneer decided than a new Cannon would

be an ideal way to celebrate.

"In great secrecy an emissary was sent down to Svart-alfa-heim (a kingdom below the earth where elves live) *to commission Sindri* (the creator of the mighty hammer of Thor) *to machine the mightiest device ever imagined. With his task in mind Sindri stole the metal for the barrel from Thor's mighty underwear and the wood for the carriage from Thor's mighty platform shoes. From this he fashioned a most awesome machine."* With a barrel of diameter 3" and bore of 6", this zenith of perfection would easily strike fear into the heart of any mortal.

The first formal firing of the marvellous weapon was at the 1973 Centennial Ball and on the third try it actually fired. Dean Ham fired the 1967 Cannon for the last time and was then presented with it in honour of his retirement from Deanship.

The new Cannon has enjoyed a period of relative tranquility since its creation, except at a frosh dance when it was stolen (by the LGMB) to scare the Cannoneer (who had carelessly left it unguarded in the band room).

But in 1976, Robert Gilmour (the Cannoneer!) was found guilty of defacing the Cannon. John Vanneste, a former Cannoneer, was called from retirement to fire the Cannon, since Gilmour had refused to do so at his own Grad Ball. The Cannon was found to be badly corroded and in need of cleaning. When the barrel was removed from the base, Gilmour's name was found chiseled into the bottom.

The Engineering Society Executive passed a motion of censure against Gilmour, and the entire deed was exposed in the Toike Oike. Furthermore, at Vanneste's suggestion the Cannon Guard wore black hard hats for a year to show the Engineers' displeasure.

V: CARE OF THE CANNON

When Skule's first Cannon was created, a Cannoneer was appointed in keeping with age-old tradition. The Cannoneer would be responsible for the selection of the Cannon Guards, making sure that the Cannon actually fired, and to do the

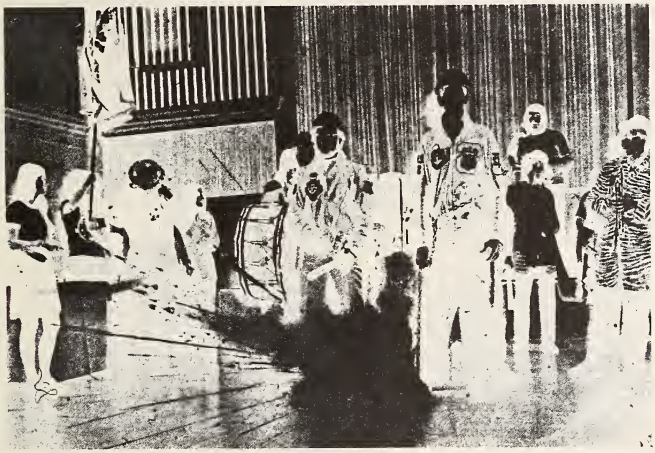
actual firing. In addition to this he would have sole knowledge of the location of the Cannon when it was not in use.

As a matter of protocol, the Cannon is fired by a cigarette butt after a convenient number of verses of Godiva. For the firing, black powder is used, and finely divided asbestos is used as wadding. This type of wadding replaced toilet paper in 1964 after the injury to the nurse.

The Cannon Guards are the red-helmeted beings who are always chained to the Cannon. To eradicate any ideas about stealing the Cannon, they are trained to kill at the slightest provocation. A full Cannon Guard is numbered four,though during the Cannon duels with Ryerson sixteen were used.

In 1959 an artificer was appointed by the Engineering Society to inspect the Cannon, issue powder and in general look after the material needs of the Cannon. However, he was quietly forgotten and perhaps needs to be revived.

We have a Cannon which, by virtue of the materials used in its construction from the tip of its shiny brass barrel to its walnut chassis, will endure as long as Skule exists. Hopefully it will never leave us and it need not if caution, brute force and devious means are employed whenever it is used.



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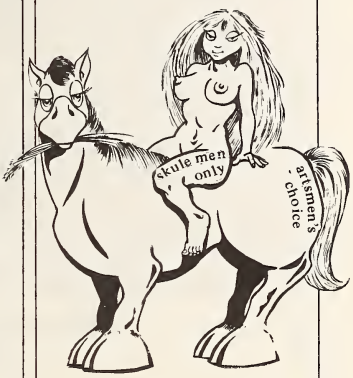
LGMB

Godiva's Oikestra



The **Lady Godiva Memorial Band** is composed of engineers (and an assortment of other students) who feel that music, good times and University spirit are as importamt to university life as assignments, tests and exams.

Anyone can join, and everyone is welcome. Musical expertise is not mandatory, buy we've found that a previous working knowledge of **any** instrument will increase your enjoyment of the Bnad's activities.

The Band performs at around 50 engineering, university, and civic functions during the year. Last year these included the Grey Cup Parade, CN Tower opening and numerous Sesquicentenial Activities, as well as all Varsity Blues Hockey and Football games. If this sounds like a heavy load in addition to your scholastic activities, it is... but you can't study all the time, and you're welcome to come to as many or as few events as you have time to fit in. Because of this, the size of the band may vary from 4 to 50 people depending upon the event and its timing.

But what kind of a band is it and what music do we play? The answer to that depends upon you, the members. Besides a few dozen standard pieces that are old

Co-Leaders:
Bruce Thompson
Larry Neumeister

SKU LGMB

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favourites with the band, we play by ear (or at least attempt) any tune that we can recall, which at any given event can range from Beatles to Beethoven. The variety of instruments is almost as wide as the range of music. This bnad does not discriminate against those who can't play any instrument at all, either — come along and we'll find something for you to do. Mobility provides the only real restriction (sorry all you piano and electric guitar players). Otherwise, anything goes.

If you're worried about taking your $600 trumpet or whatever into a crowded football stadium, or if you're without an instrument for any reason, the band will subsidize the renting of an instrument.

So you see, there's no excuse for not joining the LGMB! All you have to do is come up to the second floor of the Engineering Annex where you'll be treated to a cold beer with one of the band leaders.

If the band room appears locked, just add your name to the list on the door, and you'll be contacted.

See you soon.

Lady Godiva Memorial Play

The Lady Godiva Memorial Band, better known as THE LADY GODIVA MEMORIAL BAND, and in some circles affectionately called the **LGMB**, but often referred to as the **BNAD**, had its obscure beginnings in the small town of Coventry, England.

ACT I SCENE II (There is no scene I; you scene I you seen 'em all): *Coventry; 1678 ... accompanying fog and background music.*

It was the dawn of another seemingly normal day in Coventry; the blacksmith was beating his wife; the town cryer was sobbing, the baker was admiring his buns, the Lord of Coventry, **Leofric**, was instituting a tax on tax, and the **Coventry Wind Ensemble** was performing in the town square.

Enter Antonio.

ANTONIO: The latter end of his commonwealth forgets its beginning.

TITUS LARTIUS: No, Caius Marcius, I'll lean upon one crutch and fight with t'other, ere stay behind this business.

OFFICER: I'll do it m'lord.

EDMUND: Look sir, I bleed.

DESDEMONA: Cum, cum, you'll never meet a more sufficient man.

LUCIO: I humbly thank you sir. [*Aside to Horatio*] Dost know this waterfly?

LE BEAU: Three proper young men of excellent growth and presence.

Enter MacBeth; somewhat dejected.
MACBETH: Is this a bnad which I see before me? The trumpets toward my head?
Enter the Coventry Wind Ensemble led by Sir Bruce and Sir Larry (To avoid confusion, we will call everyone Sir Prize).
BNAD: Dum di dum dum, doo do do, da dum da dum, dum de dum de dum dum, scooby doo wah dum dah icky icky phtang whaoh doo doo, wah doo wah doo..... Yea.
Cheering and joyful noisemaking by the townspeople in general.
BNAD: Stump the Wind Ensemble; Stump the Wind Ensemble.
SOME HONOURABLE MEMBERS: Oh oh.
Exeunt.

ACT I SCENE IV (there is no scene III; you scene III, you seen two mutch)
Lady Godiva mounts the lucky horse backstage and rides nude (ie, for artsies, naked; sans clothes) *across the stage, weaving amongst the surrealistic sets and bazaar lighting. She catches a cold but frees the poor, stupid, simple-minded, dull-witted, plebian peasants....*
PEASANTS: Oh what a giveaway. Just listen to him repressing me.
....from the dubious taxes until next April, and also blinds one naughty bnadmember, (who didn't play an instrument anyway) *because he peeked and saw Ms. Godiva in her all-in-all.* The culprit will henceforth be known as the **Blinded Dog**, because of a certain mess he made while peeking.

ACT I SCENE V (there will be no more scene puns; you've scene them all... oops sorry didn't really mean that)

In commemoration of the event (see scene IV) the Coventry Wind Ensemble quickly copyrighted the name Godiva and purchased a baseball franchise, to be called the Coventry Godivas. But, after a depressing first year at the gate, losing £50,000 (22679.6185 kg) and the bat, they soon realized that baseball had not been invented yet or indeed even thought of.

ACT I SCENE VI: *Fifty years later.* The Coventry Wind Ensemble has all but disensembled.

KING HENRY: Doth any name in particular belong unto the lodging where I first did swoon?

BISHOP OF CARLYLE: I know not m'lord.

SIR STEPHEN SCROOP: Nay good bishop, that be your lord hence.

BISHOP OF CARLYLE: Sir Stephen.

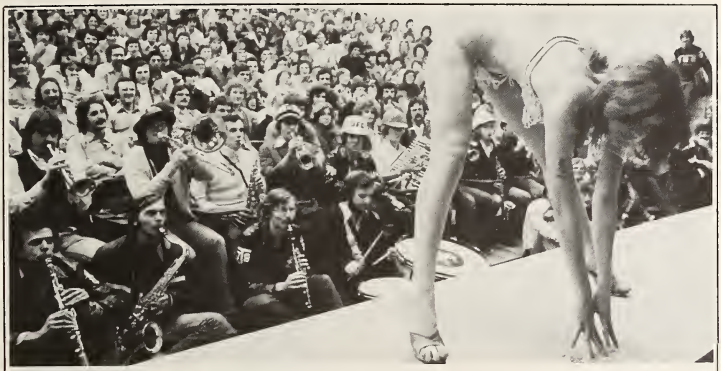
SIR STEPHEN SCROOP: Yes.

BISHOP OF CARLYLE: Get stuffed.

SIR STEPHEN SCROOP: I hath enjoyed it.

CARDINAL PANDULPH: Methinks my lord...
KING HENRY: Good good, it is of no wonder that thou ist indeed a cardinal.
Polite snickers.
CARDINAL PANDULPH: Wouldst that I could reply to thy subtle wit, but it is not in the practise of a cardinal to chastise the King.
KING HENRY: Then thy habits thou shouldst change.
CARDINAL PANDULPH: 'Tis done m'lord, they are laundered by the fortnight.
Polite snickers and kingly smirking.
But as I was saying my liege, if thou shouldst desire a change of title of the Coventry Wind Ensemble thou shoudst perchance discuss this with the ensemble.
KING HENRY: Aaaaah. [*Aside*] Intelligent posterior. Hasten me hither Sir Prize.
Enter Sir Prize.
KING HENRY: Oh, goose livers . . .

THE COURT: Goose livers, m'lord?
KING HENRY: Oh shut up. Are you entirely stupid, sirrah, I wish to speak with Sir Prize.
SIR PRIZE: Oh, a thousand pardons.
Exit Sir Prize. Enter Sir Prize.
KING HENRY: Ah. Now, Sir Prize, I am led to believe by my courtly advisors that you have a solution to the onslaught of dullness that has encroached upon our land these fifty years since that beautious nymph, Lady Godiva, didst ride our streets in her all-togetherness with her lovely . . . white . . . outstanding . . . uhh.
THE COURT: M'lord?
KING HENRY: Horse, yes horse.
SIR PRIZE: Yes, m'lord, I have the solution. To commemorate the event thou speakest of, we have reformed the Coventry Wind Ensemble, to be henceforth known as the Lady Godiva Memorial Wind Ensemble, and its membership now consists entirely of those who are Engineers by studies. We depart on the morrow with the good name of Coventry, for Toronto, Canada.
KING HENRY: Will you be performing only in Canada?



THE COURT: Only in Canada?
KING HENRY: Shut up.
SIR PRIZE: Yes m'lord, only in Canada.
KING HENRY: Oh, hot livers and cold purses.
THE COURT: Hot livers and cold purses, my liege?
KING HENRY: Shut up.

Intermission

ACT II (There are **no** scenes, but there are seven saws and a glimpse)
Toronto, 1976.

The descendents of the original ensemble, now calling themselves the **Lady Godiva Memorial Band**, because they couldn't remember how to spell **ONNPSALMBULLE**, are gathering up at Hart House Farm, where hundreds of unsuspecting F!rosh will soon be enlisted to play along and drink along with the **Bnad** and be taught the hymn "Godiva" for use at early church services at Varsity Arena and mid-afternoon hymn sings at Varsity Stadium.
SIR PRIZE: Roll ye out ye olde Godiva!
F!ROSH: Why do you talk so funny?
SIR PRIZE: Shut up.
THE LADY GODIVA MEMORIAL BAND *plays a rousing, Skule heart-warming "Godiva" and exeunt*, leaving behind only a sign-up list for F!rosh and anyone else, at the Stores and the list is quickly filled with the names of those who wish to enlist their services in the one and only, world famous, triple prize winning, record setting, record recording **LADY GODIVA MEMORIAL BAND**.

Appropriate exit music and sufficient cheering.

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The History of the LGMB

Robert Ketchen (Mech 7T8)

During the Second World War there was a munitions plant at Ajax; in fact the plant pretty well **was** Ajax. Afterwar ended, the University of Toronto used the shell-filling plant for a few years for teaching engineering, to ease the sudden post-war increase in enrollment, and the barracks served as residences for engineering students. In the fall of 1948, Engineering returned to the St. George campus and probably sometime during the '48 — '49 Skule year the now world-famous Lady Godiva Memorial Band came into existence.

A.J.Paul LaPrairie (Mining Eng. 5T0) served six years overseas with the Irish Regiment of Canada, and on spending two years taking classes at Ajax among many other veterans, felt a "regimental" band was in order. Being the Direktor of Kultural Aktivities (an executive position in the Engineering Society — the present day equivalent in terms of function would seem to be a cross between Blue and Gold Chairman

and BFC Chief) he undertook the founding of the Band. Through his contacts in the Irish Regiment he acquired the necessary accoutrements of any self-respecting world-famous band: scrounging Fort York and University Avenue Armouries and the Sally Ann at Church and King Streets turned up a collection of Irish Regiments tunics, some pith helmets, six dragoon's brass helmets, a drummer's leopard skin, two tenor snare druns, and most important, a bass drum with one head (the open side was used to stockpile beer while "on parade" — a modification which might well be worth considering for the present, in my estimation).

The actual date when the Band started is somewhat vague due to conflicting sources of information, but it would seem to have been sometime during the calendar year 1949; which Skule year, '48—'49 or '49—'50, is at present still uncertain — '49—'50 seems to be more likely since they are first pictured in the 5T0 Yearbook, although A.J.Paul LaPrairie says it was the fall of 1948. In any event, the first rehearsal fielded about a dozen people from all years consisting of trumpets, trombones, saxaphones, clarinets, one flute, two snare drums, and the bass drum (sounds disarmingly familiar) — a "motley" group at best. During the second practise it was discovered that LaPrairie could not read music , and he was demoted (or promoted perhaps) to bass drummer, and Tom Kenny became "Captain" for the '49—'50 Skule year.

The name of the Band was devised at a group think session. Ideas were batted around and Lady Godiva Band was agreed upon. Bill Walker (later President of the Engineering Society) suggested the

'Memorial' part, and so it was. The Band was even recognized in a letter from the Lord-Mayor of Coventry. Other early and original members of the Band were Leon La Prairie (Mining Geology 5T1) (this was Paul's brother — one father, six sons, and one daughter graduated from Mining Engineering and Mining Geology at U of T), Glen Weaver (Civil 5T2), Earl Scott (Mech 5T4), Don Urquart (Elec. 5T4), Bill Elliot (Mech 5T5), Jim Montgomery, and Dick Walker.

Leon La Prairie led the band in '50—'51 and Earl Scott led in '51—'52 and '52—'53. During Earl Scott's leadership, the Irish egipment tunics and pith hemnets were running out so old, gaudy clothes were taken to — a help since fights and dirty capers were frequent. Early capers and events were similar to those today: the Band performed in Skule Nites ('51—'52); raucous marches through U.C. and the Meds buildings during lectures ere not unusual (not infrequent, at least); football games were a highlight where the LGMB competed aurally with the now defunct Blue and White marching band (the Blue and White's demise, incidentally, leaves the LGMB as the only band on campus which performs in any sort of official capacity — oh my!); the main bill of

fare for the Band was performing noisy fanfares and such for events such as the Chariot Race, the Slave Auction (rather unlike the Slave Auctions we are graced with nowadays), and when the Mighty Skule Cannon made an appearance anywhere.

Details of the Band's existence for the next decade or so are at present somewhat nebulous. After that period Don Monro was leader from '61—'62 to '65—'66 with Frank Dixon fronting for him in '63—'64 while he was President of the Engineering Society. The LGMB's first two LP records wree produced by Don. The first was recorded live on November 30th, 1962, at the mighty Cannonball; it had to be re-recorded. however, when the tape machine broke. It was a financial success but otherwise a disaster. The second record was made in 1964 and was a musical success and a financial disaster. Fortunately the LGMBash was devised by Don and it made a fortune. The LGMBash has unfortunately fallen by the wayside, as have many similar events at the U of T. In 1965 the Band took first place for brass and reed bands in the Kiwanis Music Festival (played in Massey Hall!). Don says the Band was in trouble **all** the time with everybody. His last caper made headlines when the LGMB attended the opening of the Bloor-Danforth line of the Toronto Subway (I should point out here that it is a well established fact that no event in Toronto is official without the LGMB in attendance). Unfortunatel;y the opening turned into a closing and the Engineering Society was fined several thousand dollars as a result. Being an easily identified group, the LGMB was liberally blamed, even though they had nothing really to do with the electrical shutdown of the system. The most they did was enter the system without paying, but after all — why should the official band for an occasion have to pay to participate? It is only recently that the Band has been allowed to ride on the subway — the TTC officials even let us include subway concerts as part of our annual season concert programme now.

Bob Bossin (now leader of Stringband) was leader during the '66—'67 Skule year. Being enrolled in the faculty of Music, Bossin was able to pad the Band with many ringers, although we don't view them as such now; the LGMB is much more the U of T's band now and membership is open to anyone. The third record was Made by Bob (a quasi-centennial project) and it included another prize-winning performance recorded live at the 1967 Kiwanis Music Festival.

John Pullam Led the Band during '67—'68, and the big highlight that year was a trip to EXPO 67 — they were even invited to be there. Is nothing sacred? The Band also made a movie that year (strictly Super—8).

More recently, Jim Burpee (Mech 7T8) led the Band in '74—'75 and again in '75—'76 along with John Loach (Mech 7T7). Jim revived the Band from a slump in popularity which bottomed in 1973 — particularly odd, since '73 was the Centennial year for Engineering at the University of Toronto. The Band's popularity boomed again and

in 1976 the LGMB produced yet another prize-winning performance at the Kiwanis Music Festival with a band assembled for the occasion by John Loach (with a liberal sprinkling of John's friends in the Faculty of Music).

The Skule year '76—'77 saw Rob Yates (Elec 7T9) and myself lead the Band through many memorable events, including the opening of the CN Tower, the opening of the Toronto Eaton Centre, and most important, the production of the fourth LP record. This record will be out in September 1977 and will be available at the Engineering Stores on the second floor of the Engineering Annex (plug, plug!).

It should be rather obvious to the reader by now that there are huge gaps in this chronology. I have not omitted material; I simply do not have any more yet. For some inexplicable reason, getting old LGMBeers to talk about their days with the Band is like getting blood from a stone (or intelligence from an Artsman). If prodded enough though, they do give in. I'll stop on this note in the hopes that some ambitious soul will offer to help me continue during '77—'78 (which is perhaps the Band's 30th birthday!).

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Engineering Society

by Scott Ferguson

To start with, it is worth pointing out that Eng. Soc. is Canada's oldest engineering organization, having been formed in 1885, one year before the E.I.C. started up. Its first president was the then Dean of Engineering, John Galbraith (named after the famous engineering building) who held the office for three years. After him the students took the job and the first undergraduate president was H. E. T. Haultain (also named after a famous building).

Originally Eng. Soc. was what is referred to as a "learned" society which had goals such as the encouragement of original research in engineering, the preservation of the results of the research, the dissemination of the results to its members, the cultivation of a spirit of mutual assistance and co-operation among its members in preparation for and in practice of the profession of engineering and to provide an official means of communication between the student body and the Faculty Council, the University authorities, and other student bodies. The latter two objectives weren't really dominant until after World War I

SKULE Eng Soc

There used to be regular meetings of students, graduates, staff members, and invited visitors at which technical papers were presented for discussion. In 1885 these papers were published in a pamphlet form called *Papers Read before the Engineering Society of S.P.S.* These and others became the start of the Engineering Society Library from which the Engineering Stores were to be born. Later these papers were renamed *The Transactions of the Engineering Society*.

By November, 1907, the name was *Applied Science*, and it was a full technical journal. By then the Society had grown from its original 35 members to 721. This journal ended in 1916, but the *Transactions of the Engineering Society* reappeared in 1920-21 along with the *Transcations and Yearbook of the Engineering Society*, which included a section on student activities.

These early beginnings fostered an atmosphere of co-operation between the staff and students of engineering. As early as the 1890's, through negotiation with the staff, the Eng. Soc. had permission to use regular class time to attend technical meetings of the Society, and to have marks assigned to papers presented there by students, and to have these marks considered in the determination of honour standing.

In 1888-89 the Engineering Stores (then called the Supply Department) began as a small room to house books, papers, and property of the Society. By 1891-92, it was selling drawing paper to students, and by 1908 it had a permanent secretary to buy and sell goods. Eventually it separated from the library and moved to room 19 of the SPS Building (the *"Little Red Skulehouse"*). Today it is in the Engineering Annex and under student management, with a permanent sales staff (i.e., June).

In the late 1870's the Skule Yell began:

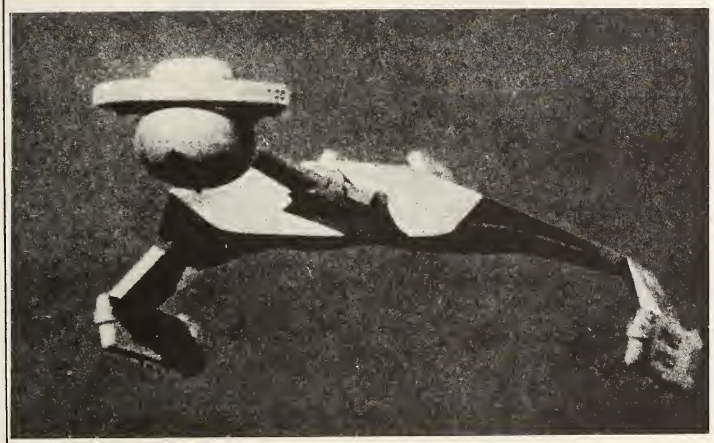
Toike Oike, Toike Oike
Ollum Te Chollum Te Chay
School of Science,
School of Science,
Hurray, Hurray, Hurray!

On November 25, 1905, the rest of this familiar yell came into being:

We are, we are, we are, we are,
we are the Engineers...

The Course Clubs as they now exist had gradual beginnings as the Society grew. Originally the course members would form debating clubs which eventually led to course clubs. The clubs are often associated with outside professional organizations, such as CSME, CSCE, IEEE, etc. The Eng. Soc. once sponsored a debating club which had intra-university and intra-year debates. Its members often joined the university debating teams and the clubs even used to offer the Eng. Soc. Cup for Skule's best speaker.

For a long time the Eng. Soc. has represented the student body's academic interests. It criticized the curriculum and staff long before students throughout the university became concerned with parity in governing the university. The Society's actions have been quiet but



effective, as can be witnessed by the current representation of students on the Faculty Council.

The Eng. Soc. as you can now see has grown from a social sort of club to an active instrument of student government and representation, maintaining the strong links between the staff, students, and graduates of Skule.

The old Skule Days Were full of rivalry and capers. The freshmen used to have to wear distinctively coloured ties; Skulemen wore green, UC had white with red dots, and Theology wore black. Bags of "tie scalp" were coveted possessions on all sides of these rivalries.

Capers were taken much more lightly in those days, as can be found in records of water floods at UC, cows in the draughting rooms (from the Medsies), Cannon thefts, and so on.

Music has long been in the hearts of engineers. In 1901 there were student singing and instrumental groups. The *Toike-Oikestra*, Formed in 1911, died at the first World War, and rose again in 1919. The *LGMB* is a relative newcomer, having been formed in 1948. Originally it had about a dozen core members but grew as large as 250 at football games. Even the University's president, Sidney Smith, joined the bunch on occasion. The Lord Mayor of Coventry, England extended his formal greeting when he heard of the Band's formation. Today it is still its fun loving and merry-making self,

now being the "Triple Prize Winning LGMB".

Skule Nite had its beginnings in 1920 when the Eng. Soc. Executive appointed a committee to develop the growing interest in a Stunt Night. The first annual "*Ngynrs in SPsSms*" was presented in Massey Hall on March 2, 1921 to an audience of 1343 people, with music provided by the Toike Oikestra. Nowadays they take place in Hart House Theatre for three or four day runs. Unfortunately Skule Nite production died in the 1960's, but it was reinstated in 1973 and continues strongly.

The *Toike Oike* made its debut during the Eng. Soc Elections of 1906. It also died during the First World War but was reborn in 1920 and has continued to this day.

The Chariot Races of today began as a part of an indoor festivity celebrating the Eng. Soc. Elections. The winners were awarded the *Gerry P. Potts Trophy* which still exists and is presented , still, to this day. The contestants would balance on thunder pots with ropes on their handles. Today, of course, the chariots are somewhat larger, faster, and the riders more armoured.

So ends a brief summary of the history of Eng. Soc., as recorded in **Cold Iron and Lady Godiva**. You can see that it is a dynamic and ever changing organization which is built up of and for students in engineering. It's **your** society, so use it and support it.

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Eng Soc

Engineericus Chemicalius

Chemical Engineers are easily recognized by the gaping holes in their lab coats, not to mention their Handbook page. The **Chemical Engineering Club** is responsible for this, as well as some of the best social life in the Faculty. This is partly due to their nifty common room, blatant hedonism, affinity for liquids, and being locked away in the bowels of the Wallbürger building for years on end. But mostly it's due to the fact that there are a lot of women in Chemical.

Why is this so? We've spent a lot of time trying to figure this out. Is it because most Chemicals are actually Chemists who couldn't hack it in Science? Do girls who like cooking just naturally enjoy chemistry labs in high school? Do they all fall in love with their chemistry teachers? Do they chose it because they think they know what it is? Are girls foolish enough to choose engineering steered into Chemical by their high school counsellors? Are Chemicals really artsies in disguise so the girls feel safe? Is it because they can hide away from the rest of us outside the Wallburg?

Damn it, I'd like to know! Maybe things would have worked out differently if I'd gone into Chem. Maybe not.

I guess I wouldn't want to spend the rest of my life in Sarnia anyway.

Engineericus Civilus

Now that the cordial formalities have been dispensed with, we will get down to the nitty gritty. This year's cumming **Civil Club** will direct its efforts towards the participation and attendance by undergraduate and graduate Plumbers (Engineers) and also the staff of events planned. Therefore, we will tell you N! times to cum out and enjoy yourselves, meet your fellow classmates, the upperclassmen, our friendly profs and for the singles crowd a possible mate (no guarantees). F!or those strokes who do not want to get involved, they might as well throw in their hard hat and become an artsie.

Some of the wondrous events that will be held during the (inter)course of the cumming year will include: pizza lunches, smokers, very interesting parties, basketball, volleyball, and hockey tournaments and the big event, which students and staff look forward to, the Civil Dinner. To inform the ones who have never attended this Gala affair, the Civil Dinner is an evening where the students poke fun at the profs and put a few back at the same time.

The educational events that will be held during the year will be noon hour speakers on various topics and careers night (no other club has this event). Careers night informs the students of the professional aspects of Civil Engineering. All students should attend this event to build a strong foundation for their professional careers.

That's about all we have to say for now. We hope to see you this year, and remember, University is not books alone — it's meeting people. Therefore, work hard and enjoy yourselves. Have a good year and please get involved for your sake.

Frank De Caria
Civil Club Chairman

SKULE

Eng Soc

Engineericus Electrocutius

Looking for a good time, then call this number: 690-0000....ooh! But if you're looking for a really good time..... have it with the Electrical Club. Join us on our floating dance floor on the Mariposa Bell Shipwreck cruise where everyone staggers around, or have a roll in the hay with a friend at our barn dance. Then there are the compulsory events such as the Pizza-Pubs and the Chariot Race, in which the Blue Electrical tank with the lightning bolts braves a trail of bodies behind as the 'inVincible' team blazes its way to victory (this year for sure). Also, there are friendly(?) competitive sports events between classes, plus many other fabulous ways to spend an evening.

Most people will be welcome at these events, but if you are enrolled in the Department of Electrical Engineering, then you are instantly a lucky member of this exclusive club and are entitled to attend everything, or else come out to an executive meeting and start something. Keep an eye out for our posters.

Poco
Vice-Chair Person,
Electrical Club

7

SKULE

Eng Soc

Engineericus Scientious

All students of Eng Sci are members of the **Engineering Science Club**, which is responsible for social events within the division. The annual event is the Eng Sci dinner, which has excellent food and interesting speakers at a very reasonable and highly subsidized price.

Smokers, which are informal meetings between professors and students with plenty of beer available, are held twice per term. New this year is a wine and cheese (or perhaps several, depending on the popularity), which will be held in November.

The fire in the Sandford Fleming building destroyed our previous common room, but hopefully by the time you read this (or October at the latest), the new common room will be ready. It will be situated on the ground floor of the old Central Library, directly across the road from the Galbraith Building. This common room is for the use of all Eng Sci students and is the ideal location for eating lunch, *"discussing"* problem sets, or just simply relaxing.

The new Chairman of the Division of Engineering Science is **Dr. F. Hooper**, former star of stage and screen. The Co-Chairmen of the Eng Sci club are **Gary Barber** and **Neil McNeil**, so track them down for further information, a copy of last week's problem set, and a chance to have a bit of fun in your spare time.

Gary Barber and Neil McNeil may be found in the common room, or reached at 532-1719 or 925-7541 (respectively) at any reasonable hour. Dr. F. Hooper's office phone number is 978-2903.

SKULE

Eng Soc

Engineericus Geologicus

This is the article for **Geological Engindeering and Applied Earth Science**. Please keep editorial work to a minimum and don't cut a single idea.

[*OK by me — it's just the way you wrote it. Ed.*]

Welcome to the illustrious department of Geological Engineering and Applied Earth Science (I don't know what the last bit means) where men are taught how to where to, when to and why to play with their rocks. The difference between us and others is we get payed for it (eventually).

Now that I have gotten tradition out of the way with a rude comment, lets get serious for a moment. If you love the out doors, nature, rain, wild animals, long hours, black flies, mosquitos and isolation, then option A, Exploration, is for you. On the other hand if you are fascinated by smelters, flotation machines, grinders, crushers, roasters, thickeners, systems, thin sections and semi isolation then option B , Minerals Processing is for you. Finally, not necessarily due to being the least, if you lke subways, foundations, tunnels, pits, dams, highways, and slope stability then your an option C man.

Regardless of which one is your bag, we're all in the same boat called "Rock". We may be small but we have guts and we have spirit.

Again welcome to OUR department and any questions are welcomed by me. Good Luck and hope to see you, whether it be on an outcrop, through a microscope or in a tunnel.

yours, John MacDonell
Eng Soc V.P. Admin.
and Fellow Geol. Eng.

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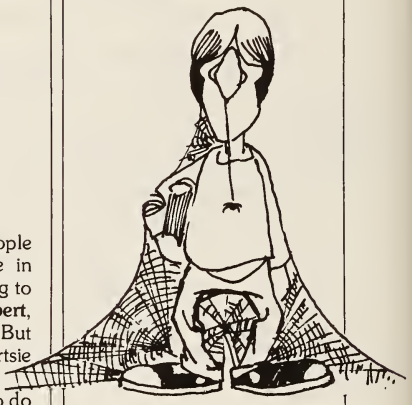
Eng Soc

Engineericus Industrious



The **Industrial Club** is the club for people in Industrial Engineering. If you are in Industrial Engineering, then you belong to the Industrial Club. So does **Andy Gizbert**, but he doesn't want anybody to know. But then what can you expect from artsie engineers anyway?

The Industrial Club probably plans to do a lot of fascinating things this year. Aren't you sorry you don't know about them?

Go ask **Andy** — he might tell **you**. (He wouldn't tell us.)

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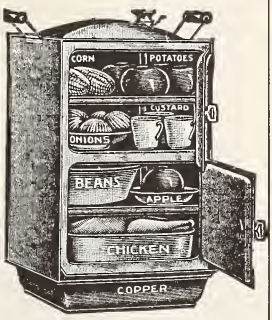
Eng Soc

Engineericus M. M. Messius



Does the **MMS Club** do anything? Do they exist?

7

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Eng Soc

Engineericus Mechanicus

This article will start out just like all the others by saying that Mechanical Engineering is a varied and interesting program. But since nobody but F!rosh will believe that anyway, here are some of the things the Mechanical Club has planned for this year:

1) Winning the Intercourse Competition (of course).
2) Winning the Chariot Race (as always).
3) A class dinner in February.
4) Fourth year field trip to some undiscovered and probably virginous country.
5) Renovations to our Common (Wash) Room.
6) As many organized and dis-organized good times as can be squeezed in between.

If you have any ideas you would like to try out, tell us we'll try nearly anything once. One of our biggest problems is a lack of money, so if you've got any fund raising ideas, come to us! We are always looking for new things to do, so leave a message in the Mech Club box in the Annex, or cum up to Rm. 313 in the Mechanical Bldg.

Some of the advantages of being a Mechanical are:

1) A building completely decorated in Early Canadian Washroom Decor.
2) Lab facilities and equipment dating from 1927.
3) 14"
4) A kind and loving Department Chairman.

The CSME also exists somewhere John Weber, Mech 7T9 is the person to see about that. And remember Guy Lam graduated last year so it is safe to register in Mechanical again.

Steve Conquergood
Mechanical Club Chairman
person
body

SKULE

Eng Soc

WOMEN'S COMMITTEE

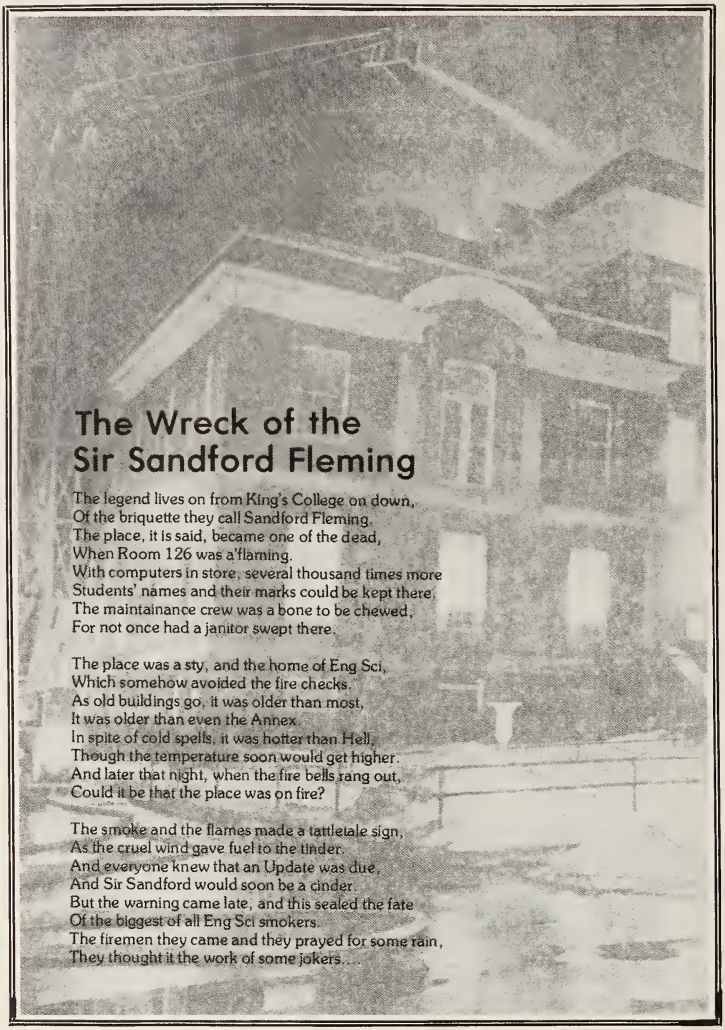
Rosemary wouldn't tell us what they're up to, so we have to guess. The **Women's Committee** usually organizes a wino and cheese party in the fall, and a wino and feed party in the spring. As well, they sometimes bring in speakers on various interesting topics. Sometimes they pull the pants off sailors. Some of my best friends are "woman engineers", so be nice to them.

One of the typical problems faced by the woman in Engineering is where to find a washroom within five minutes' walk of her next lecture.

It was a gargantuan task, but we've finally located them **all**:

Wallberg: 109B-C, 252B, 053A
Sandford Fleming: 101A, 040.
Rosebrugh: 302
Engineering Annex: 102, 202A, 307
Mechanical: 132, 321
Haultain: 308-A
Galbraith: 209-210-A, 005A

Good luck!

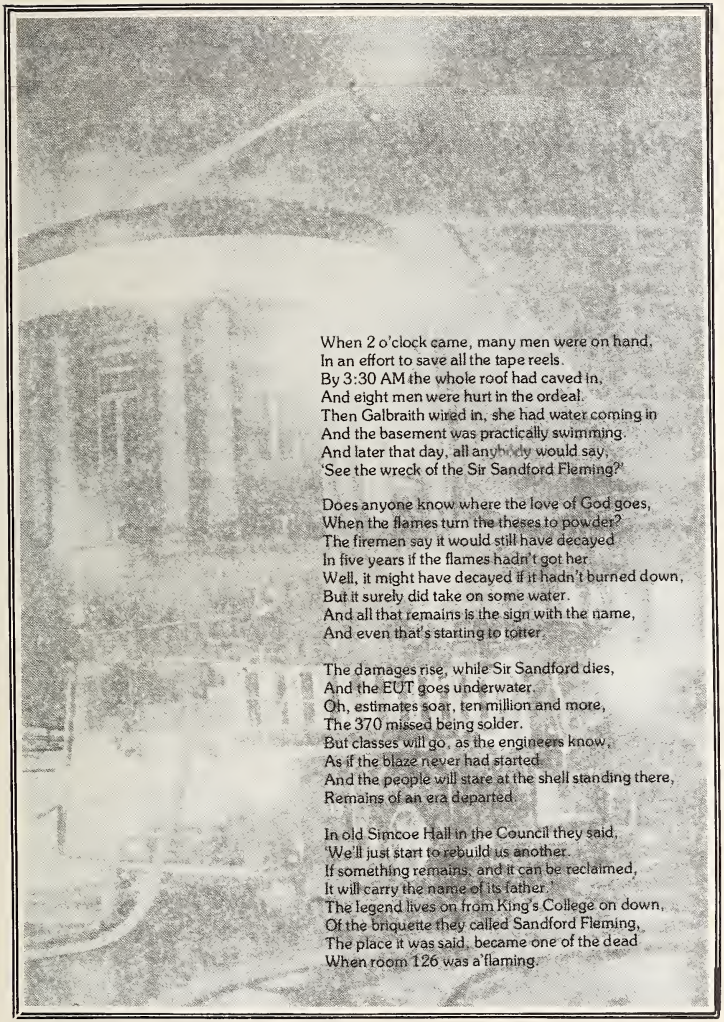


The Wreck of the Sir Sandford Fleming

The legend lives on from King's College on down,
Of the briquette they call Sandford Fleming.
The place, it is said, became one of the dead,
When Room 126 was a'flaming.
With computers in store, several thousand times more
Students' names and their marks could be kept there.
The maintainance crew was a bone to be chewed,
For not once had a janitor swept there.

The place was a sty, and the home of Eng Sci,
Which somehow avoided the fire checks.
As old buildings go, it was older than most,
It was older than even the Annex.
In spite of cold spells, it was hotter than Hell,
Though the temperature soon would get higher.
And later that night, when the fire bells rang out,
Could it be that the place was on fire?

The smoke and the flames made a tattletale sign,
As the cruel wind gave fuel to the tinder.
And everyone knew that an Update was due,
And Sir Sandford would soon be a cinder.
But the warning came late, and this sealed the fate
Of the biggest of all Eng Sci smokers.
The firemen they came and they prayed for some rain,
They thought it the work of some jokers....

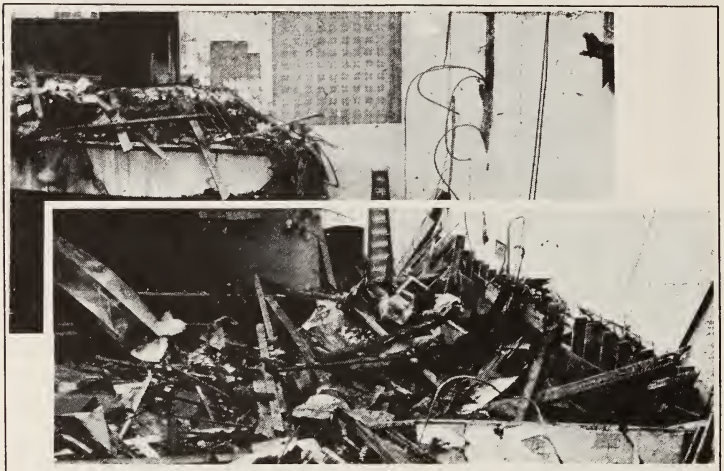


When 2 o'clock came, many men were on hand,
In an effort to save all the tape reels.
By 3:30 AM the whole roof had caved in,
And eight men were hurt in the ordeal.
Then Galbraith wired in, she had water coming in
And the basement was practically swimming.
And later that day, all anybody would say,
'See the wreck of the Sir Sandford Fleming?'

Does anyone know where the love of God goes,
When the flames turn the theses to powder?
The firemen say it would still have decayed
In five years if the flames hadn't got her.
Well, it might have decayed if it hadn't burned down,
But it surely did take on some water.
And all that remains is the sign with the name,
And even that's starting to totter.

The damages rise, while Sir Sandford dies,
And the EUT goes underwater.
Oh, estimates soar, ten million and more,
The 370 missed being solder.
But classes will go, as the engineers know,
As if the blaze never had started.
And the people will stare at the shell standing there,
Remains of an era departed.

In old Simcoe Hall in the Council they said,
'We'll just start to rebuild us another.
If something remains, and it can be reclaimed,
It will carry the name of its father.'
The legend lives on from King's College on down,
Of the briquette they called Sandford Fleming,
The place it was said, became one of the dead
When room 126 was a'flaming.



What Has Happened Since the Fire

On February 11th 1977 the Sir Sandford Fleming Building went up in smoke. The damage was widespread with over 49,000 square feet of space lost.

In spite of what was the largest and most far-reaching disaster the Faculty has ever suffered, only one day of classes was lost. The fire coincided with the rest of the University's reading week, so engineering classes and tutorials were hastily rescheduled into vacant Arts buildings while the extent of the damage was assesed.

The big losers were Civil, Electrical, and Engineering Science, as well as the University of Toronto Computing Center (UTCC) and the Engineering Library.

The crisis sparked such a proliferation of committees as has seldom been seen at the University.

Within days an emergency meeting of Faculty Council asked President John Evans to take any steps necessary to replace the facilities lost. The Engineering Alumni Association made the rebuilding its number one priority in fund raising. Dean Etkin established the *Engineering Task Force on the Sandford Fleming Fire* which was: to

oversee and/or conduct an inventory of damage and loss; to effect the repair or replacement of equipment and services; and to effect the re-location of staff, students, laboratories, etc.

On February 18th, one week after the fire, the *Committee on Accomodations and Facilities* [*CAF*] approved an interim plan which was to be effective until September, 1977. Affected staff and grad students of Civil and Electrical Engineering and the Computer Systems Research Group (CSRG) were to be housed in space within the Galbraith Building and Burton Wing of Sandford Fleming.

Several large tutorial, seminar and conference rooms were taken over to meet this interim office accomodation requirement, and the resultant shortage in teaching space was met by rescheduling lectures into other buildings.

To help the Faculty in this time of crisis, the Engineering Society gave up its Common Room and storeroom on the second floor of the Annex. The displaced staff of UTCC now moved into this space.

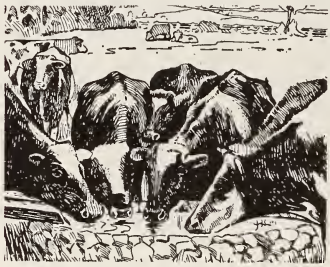
Temporary computer facilities were provided by the Arts and Science Undergraduate Terminal (ASUT) in Sidney Smith. Most frustrated Engineers will recall the massive overcrowding, unacceptable traffic jams and user delay. The Engineering Undergraduate Terminal (EUT) and the Sandford Fleming user facilities were later moved into the western half of the Annex Cafeteria.

The Engineering Library was moved to the Sigmund Samuel Library building for drying, and then temporarily located in two reading rooms in the Science and Medicine Library.

CAF recommended that space be rented to replace that lost through the fire, beginning with the academic year 1977-78, and to be used until the Sandford Fleming facilities had been replaced.

In February, Dean Etkin initiated the formation of a Decanal Committee which was called *"The 1977 Space Committee* [*T1SC*]*"*. The committee was: *to analyze the space needs of the Faculty; to recommend the functions to be accommodated in the reconstructed space and the associated allocations of area; to consider and report on the options available to realize the reconstruction of a new facility; and to maintain close liaison throughout this planning process with the departments, centers and institutes of the Faculty, and with the office of Planning and Research in the central administration.*

Quite noticeable during this time was the lack of **any** student involvment, especially regarding the ultimate disposition of the Common Room and storeroom. Dean Etkin attended a meeting of the Eng. Soc. executive and reassured them that student interests would not overlooked in all the haste.



He stated that in the long term plans for the Annex, the Common Room facilities (in which the Society had invested over $7000) would not be lost. Tentative plans would have UTCC move out of the second floor of the Annex and return it to the Society in September 1977. The common room would be fully restored to its condition prior to the fire, at no cost to the Engineering Society.

The Dean further stated that: *"If for any reason this plan for the UTCC should not be implemented, it is our firm undertaking to the Engineering Society that you will not ultimately be the losers. We are committed to either restoring you to your original facilities or providing an equivalent alternative."*

In March 1977, President Evans established yet another committee, the *Sandford Fleming Overview Committee*, to be responsible for the long-range planning for the rebuilding or reconstruction of the Sandford Fleming Building.

In May 1977, the University rented the old Metro Reference Library building at the corner of College and St. George from the City of Toronto. This would provide interim accomodation for two to four years, filling the need for space lost either by the fire or by the relocations that followed.

CAF decided that the building would be devoted primarily to undergraduate student activities: the Engineering Library, tutorial and seminar rooms, some staff offices, the Engineering Society offices, Stores and Common Room, and the Cafeteria. No indication was given as to when these facilities were to be made available

Also in May, *T1SC* presented its interim report, which the Dean then used as a negotiating tool in his negotiations with the administration for replacement space. The Faculty asked for 125,000 square feet, to be provided by the reconstruction or rebuilding of the Sandford Fleming Building.

In June, 1977 the *SFOC* made its report, recommending "restoration" of the damaged building. The building was to be reconstructed within the present exterior walls, to meet present-day standards but with whatever improvements possible at reasonable cost. They proposed to provide a third floor over the

auditorium, and a fourth floor over the remainder of the building. The Butler Building (the prefab building in the quad) would be removed and the courtyard filled in at the basement and first floor levels. The proposed new building would provide the Faculty with 88,800 square feet, quite a substantial increase over the 49,000 square feet lost. It wasn't the 125,000 square feet that the Faculty was asking for, but it's not bad.

This justified Dean Etkin's optimistic comments in the Feb. 17 special edition of the Toike, when he stated that he saw the disaster possibly as *"a blessing in disguise in the long run. The ultimate results will be a vast improvement, but it will be several years before it really materializes; everyone, students in particular, must suffer a little now, but every cloud has a silver lining."* It looks as if the lining is about 39,800 square feet.

In June, the administration agreed with the *SFOC* and suggested that a *Users Committee* be set up to determine the allocation of space in the reconstructed building. At the time of this writing (mid July), it looks as if the Department of Computer Science will find its new home in the Sandford Fleming Building and that the *User's Committee* will recommend the amalgamation of the Engineering Library with the Physics, Computer Science, Astronomy, Mathematics and Chemistry Libraries. The amalgamated library would be located in the first two

floors of the McLennan Physics Building, freeing 10,000 square feet of space in Sandford Fleming, lowering library operating costs, and providing a more extensive collection to draw upon in one location.

It is important to note that the *User's Committee* does not have the power to implement these proposals. Only Governing Council can.

An an educated guess, I would be willing to bet that the amalgamation of the libraries is such a sticky question that it will not be resolved by October 1st, which is the deadline for determining such a major question of space allocation. The only way to meet this deadline is by a Presidential Decree by President Evans, but will he have the guts to rule by decree in such a potentially volatile issue?

Until it is decided one way or the

other, the *User's Committee* is proceeding with two separate plans, one with the Engineering Library in the reconstructed building and the other with it amalgamated and in the Physics building.

The UTCC's current (July '77) plans for the Engineering Annex involve the takeover of the remaining half of the Annex cafeteria for the installation of a newly purchased computer. However, a city-wide electrician's strike has delayed this project. The plans also include the takeover of the remaining half of the second floor for office space.

The Engineering Society Offices and Stores will be moved to the Metro Library Building on the south-west corner of St. George and College. The timing of these moves are guesses at the best, but it seems likely that the Society offices will be moved by the third week in September and the Stores will move in the second week of October, after the first year textbook rush. Both will be located on the third floor in the northeast corner of the building.

The new building is tentatively scheduled for completion in three years, so this year's frosh will be around to live in it. I strongly suggest you take a keen interest in its planning stages. The potential for great improvement is there, but only if strong student involvement exists. This involvement should span the entire three years and it should start with the frosh. If you want to get involved see me (Joe Lstiburek) as soon as possible.

SKULE

Services

Communications Committtee

Dear upperclassman/ lowerclassman/ plebe/ slave/ scum/ F!rosh: Welcome/ welcome back/ unwelcome to Skule. This article is designed to give you an idea of what your **Communications Committee** does for you (and what you can do for your Communications Committee and its tiny perfect gorgeous Chairbody).

Firstly, the Committee is here to provide entertainment and or information through various media forms (if I may wax artsie). The Handbook/ Yearbook/ Toike Oike/ Tiny Toikes/ posters, which are produced at the start of the year/ at the end of the year/ every now and then/ every Monday or Tuesday/ when necessary, are overt manifestations of the existence of that hardworking group of people (!) known as the Communications Committee.

It's too late to say anything about the **Engineering Handbook** (for obvious reasons). However, a word of thanks to Eric — Thanks, Eric (darling).

The **Yearbook**, which is distributed to all students free of charge near the close of the spring term, is a record of the Skule year. Of course, providing an accurate record requires record-takers. (Hint, hint) Not to mention penguins, please.

Claudia Straka,

Communications Committee Chairman

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Communications (continued)

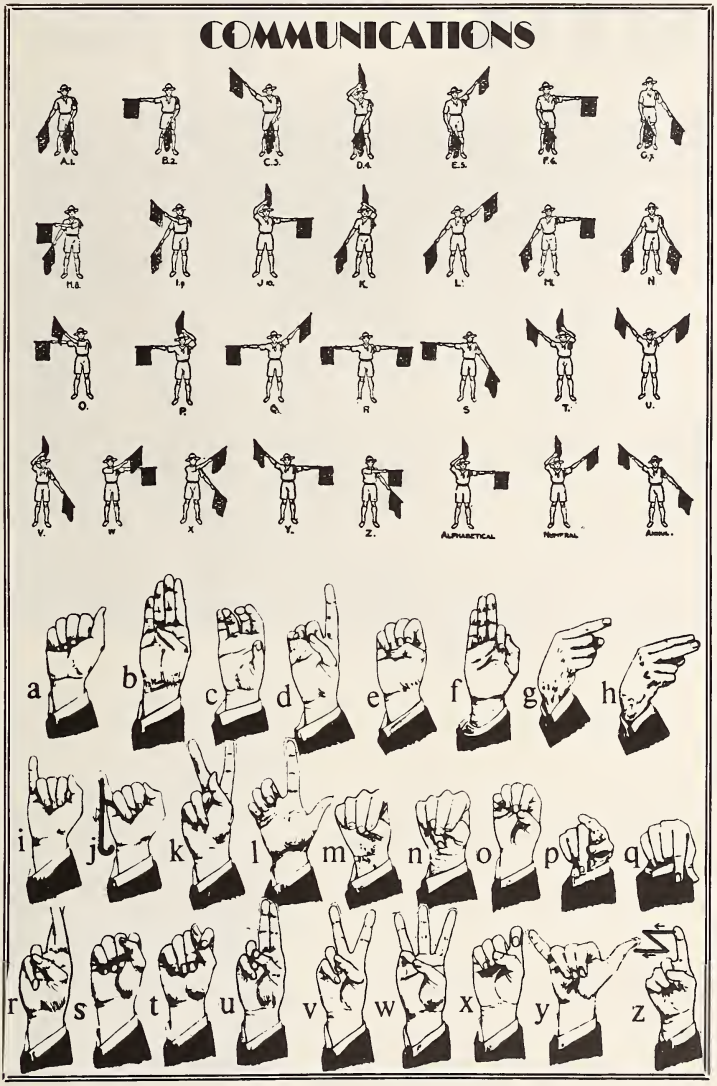
The **Toike Oike**, famous for Joikes, is so well known, need one say more! Makeups are the Saturday before publication day, with free food and beverages and golf shoes provided. There are also openings for people interested in learning the sacred art of typesetting and publishing a newspaper.

The Engineering Society owns a fully equipped darkroom which is available to anyone who helps with the Toike or Yearbook photos. A great chance to practice those lights out activities!

Tiny Toikes, which will appear every Monday or Tuesday in strategic locations in Engineering buildings (i.e. Annex, Galbraith lobby, etc), are the Engineering Society's means of communicating regularly with the students. Of course, any Engineering student with something to say may leave a Tiny Toike entry in the Communications mailbox. Oh yes, the Tiny Toike also has Joikes, sort of.

Every so often, **posters** will appear legally on bulletin boards and illegally on walls. Frosh take note: posters are the staple of engineering life — they make terrific paper airplanes, convenient problem set stationery, and (if all else fails) you can even read what's printed on them again. Anyone wishing to volunteer for part-time or seasonal employment in putting these posters up is more than welcome (more hint, hint)

Most makeups for these productions happen in the Annex. Times will be given in Tiny Toikes and/or posters. So come on out and join in the fun! Just ask for **Claudia**.


COMMUNICATIONS
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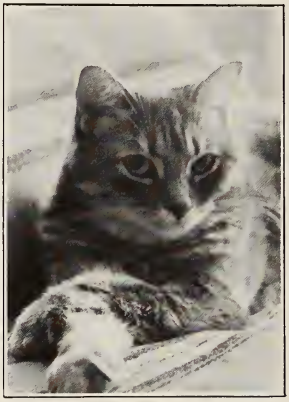
Engineering Yearbook

This year it has been decided that the **Engineering Yearbook** will be edited by one of the F!rosh, whose name will be drawn out of a hat on Orientation Day. **You** might be the lucky winner. Your mission will begin back in June (via a short time warp) arguing prices with nefari... I mean various publishers and determining how much beer the Finance Committee will allow for the make-outs.

Wot is the Yearbook? you ask; you inquisitive innocent one who is being engulfed by the manifestations of megalomaniacal desires to attain higher levels of awareness; (i.e. one who is going to U of T). Well...

In and about the months of November, January and February, determined and eager engineers gather round in the Annex (or an appropriate substitute) with nothing to do but eat and drink beer, and a patient observer would find that a yearbook is in the process of compilation. This, of course, is true only if it is not a Toike week or Helen's birthday. (Helen is the lady who haunts the Annex at night). However, on the odd occasion that the full circle of the Eng. Soc. Communications Committee is included in the milling throng it would be judicious to assume that the Toike-Oike — Yearbook mass make-up is happening.



This is an unusual event occurring at most once a year, sometimes partly

at a dead 'Elm', partly at a defunct common room and partly asleep at a typewriter.

Besides these ripples in the Society's lifestream, or in spite of them, a yearbook gets published. The yearbook incorporates a select few photos from countless submissions from you budding photographers (those interested in asexual photocopy) who spectate the environment around engineering events. It also contains the rows of graduate photos artistically laid out and aligned onto the yearbook tableaux. These photos are preceded by the exciting and invigorating 'Clubs' section where the year's exploits of each department are displayed four awl too sea. This is where your photographication is needed.

The rest of the book is a smattering of nads, from our very own nad agency residing in the presidents' office, mixed with pages and pages of real neat stuff like the Chariot Races, Cannonball (our Winter bash-cum- dance- cum- semi- formal) and events from around the Eng. Joc. sports world.

If you get the bug to get even slightly involved with this melding of great thoughts, then leave a message for **Sneaky Pete** 'round the second floor of the Annex, any time.

SKULE

Services

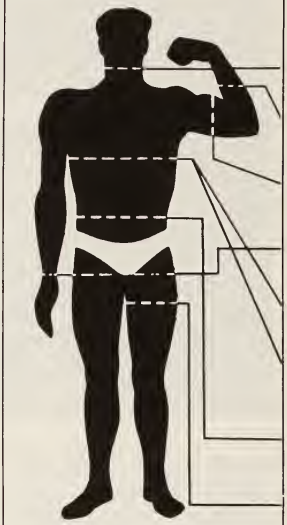
Professional Development

The **Professional Development Committee** is responsible for co-ordinating the efforts of student technical societies and for maintaining relationships with professional organizations to promote the professional and educational development of the members of the Society.

Each year delegates from the Society participate in national and provincial student conferences. In Winnipeg last January, the Congress of Canadian Engineering Students united engineering students from across Canada to discuss *'Energy, Our Lifeblood: Technology and Economics'*. Experts from industry, universities and government addressed the Conference, balanced by presentations from the student delegates. U. of T.'s contribution, a paper entitled *'Our Sun Goes Fission On A Nuclear Day'*, examined the future of nuclear and solar energy in Southern Ontario. Other student papers disucssed pertinent non-technical topics such as the pros and cons of engineering student involvement in NUS (National Union of Students) and course accreditation requirements. This year's conference will be in Sherbrooke, Quebec.

U. of T. hosted the A.P.E.O. Conference on *'Health, Safety and the Engineer'* for representatives from Ontario's schools of engineering. Communication between the various Engineering Societies is facilitated by a national student newsletter which is compiled here at U. of T.

Participation in the activities of the Professional Development Committee is open to everyone, so volunteer and take advantage of this year's special opportunity to learn Godiva in French, not to mention the travel and parties...



Karen Kennedy

Chairman

CODE OF ETHICS

Revised July 1975

GENERAL

1. A professional engineer owes certain duties to the public, to his employers, to his clients, to other members of his profession, and to himself, and shall act at all times with:

(a) fairness and loyalty to his associates, employers, clients, subordinates and employess;

(b) fidelity to public needs; and

(c) devotion to high ideals of personal honour and professional integrity.

DUTY OF PROFESSIONAL ENGINEER TO THE PUBLIC

2. A professional engineer shall:

(a) regard his duty to public welfare as paramount;

(b) endeavour at all times to enhance the public regard for his profession by extending the public knowledge thereof and discouraging untrue, unfair or exaggerated statements with respect to professional engineering;

(c) not give opinions or make statements on professional engineering projects of public interest that are inspired or paid for by private interests unless he clearly discloses on whose behalf he is giving the opinions or making the statements;

(d) not express publicly, or while he is serving as a witness before a court, commission or other tribunal, opinions on professional engineering matters that are not founded on adequate knowledge and honest conviction;

(e) make effective provisions for the safety of life and health of a person who may be affected by the work for which he is responsible; and at all times shall act to correct or report any situation which he feels may endanger the safety or the welfare of the public;

(f) make effective provision for meeting lawful standards, rules, or regulations relating to environmental control and protection, in connection with any work being undertaken by him or under his responsibility; and

(g) sign or seal only those plans, specifications and reports actually made by him or under his personal supervision and direction.

DUTY OF PROFESSIONAL ENGINEER TO EMPLOYER

3. A professional engineer shall;

(a) act in professional engineering matters for each employer as a faithful agent or trustee and shall regard as confidential any information obtained by him as to the business affairs, technical methods or processes of an employer

and avoid or disclose any conflict of interest which might influence his actions or judgement;

(b) present clearly to his employers the consequences to be expected from any deviations proposed in the work if his professional engineering judgement is overruled by non-technical authority in cases where he is responsible for the technical adequacy of professional engineering work;

(c) have no interest, direct or indirect, in any materials, suppplies or equipment used by his employer or in any persons or firms receiving contracts from his employer unless he informs his employer in advance of the nature of the interest;

(d) not tender on competitive work upon which he may be acting as a professional engineer unless he first advises his employer;

(e) not act as consulting engineer in respect of any work upon which he may be the contractor unless he first advises his employer; and

(f) not accept compensation, financial or otherwise, for a particular service, from more than one person except with the full knowledge of all interested parties.

DUTY OF PROFESSIONAL ENGINEER IN INDEPENDENT PRACTICE TO CLIENT

4. A professional engineer in private practice, in addition to all other sections, shall:

(a) disclose immediately any interest, direct or indirect, which might in any way be construed as prejudicial to his professional judgement in rendering service to his client;

(b) if he is an employee-engineer and is contracting in his own name to perform professional engineering work for other than his employer, provide

his client with a written statement of the nature of his status as an employee and the attendant limitations on his services to the client. In addition he shall satisfy himself that such work will not conflict with his duty to his employer;

(c) carry out his work in full compliance with the appropriate Performance Standards for Professional Practice as may be published from time to time by the Association of Professional Engineers of Ontario;

(d) carry out his work in accordance with applicable statutes, regulations, standards, codes, and by-laws; and

(e) co-operate as necessary in working with such other professionals as may be engaged on a project.

DUTY OF PROFESSIONAL ENGINEER TO OTHER PROFESSIONAL ENGINEERS

5. A professional engineer shall:

(a) conduct himself towards other professional engineers with courtesy and good faith;

(b) not accept any engagement to review the work of another professional engineer for the same employer except with the knowledge of that engineer, or except where the connection of that engineer with the work has been terminated;

(c) not maliciously injure the reputation or business of another professional engineer;

(d) not attempt to gain an advantage over other members of his profession by paying or accepting a commission in securing professional engineering work;

(e) not advertise in a misleading manner or in a manner injurious to the dignity of his profession, but shall seek to advertise by establishing a well-merited reputation for personal capability; and

(f) give proper credit for engineering work, uphold the principle of adequate compensation for engineering work, provide opportunity for professional development and advancement of his associates and subordinates; and extend the effectiveness of the profession through the interchange of engineering information and experience.

DUTY OF PROFESSIONAL ENGINEER TO HIMSELF

6. A professional engineer shall:

(a) maintain the honour and integrity of his profession and without fear or favour expose before ths proper tribunals unprofessional or dishonest conduct by any other members of the profession; and

(b) undertake only such work as he is competent to perform by virtue of his training and experience, and shall, where advisable, retain and co-operate with other professional engineers or specialists.

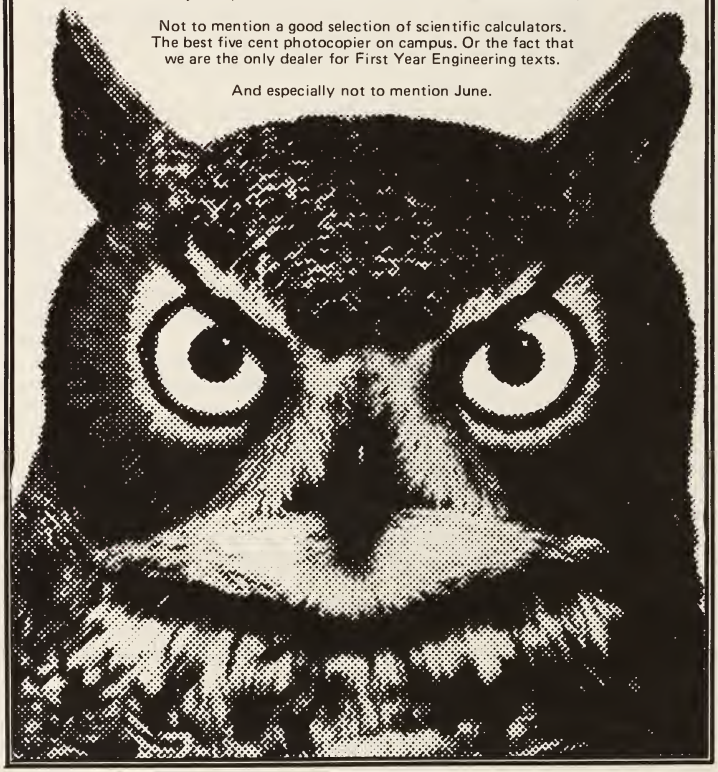
WISEN UP!

Where do you get all your Skule supplies? If you didn't answer the ENGINEERING STORES, you should be at Ryerson! The Engineering Society runs the Stores to give you what you need at the lowest possible prices. We're upstairs at the Annex.

Note books — Exam reprints — Binders — Drafting supplies — Schaum's Notes — Pens — Pencils — Paper — Eng Soc decals — BFC buttons Skule jewelry — LGMB records — Booze and sex (sometimes)

Not to mention a good selection of scientific calculators. The best five cent photocopier on campus. Or the fact that we are the only dealer for First Year Engineering texts.

And especially not to mention June.



SKULE

Services

Eng. Stores

Hidden deep in the cleft between the vast expanses of the Wallberg and Galbraith buildings,there sits an innocuous, sooty little building. In front, a small blue sign concealed by bushes can be found, showing this to be the infamous Engineering Annex. On the second floor, nestled at the end of a maze of corridors, there exists an organization designed to strike pain into the pocketbooks of the hordes of capitalistic lackeys seeking to rip off the beleaguered Engineering undergraduate.

Yes, this is the home of the **Engineering Stores**. Here, led by their fearless salesperson, **June**, the Engineering Society fights to supply quality merchandise essential to engineers at **non-profit** prices.

Since its conception in the early days of the Society, this aim has remained unchanged. However, the Stores has grown from little more than a stationery supply shop (in the 1890's) into the present operation, which includes all first-year Engineering course texts (a fact begrudged by the Uof T Textbook Store), drafting supplies, and a good selection of scientific calculators. The Stores also acts as ticket office for most Eng. Soc. activities, and carries such Skule items as Engineering T-shirts and various buttons and decals. It's also a good place for "hanging around".

If you need supplies, we've got the best values and fast, friendly service. Take advantage of us; we're here to serve you.

Ken Smith,

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SKULE

Services

Alumni

The most important thing to know about the **Engineering Alumni Association** is that there is an Engineering Alumni Association. This is good to know because these guys hand out **money**($, moolah, long green, big bucks, etc...) to undergraduates for the usual scholarships and bursaries and some not-so-usual things. They support the Professional Development Committee's trip to their annual conference, and career night smokers organized by the various Course Clubs. They can move pretty fast for a bunch of old guys... within a week of the Sanford Fleming fire they had over $50,000 in the restoration fund and they added another $15,000 to that within a month by organizing a telethon.

The Alumni appear in force a few times a year. The LGMB always attends Alumni reunions because it is the one time they are sure of getting free beer and a receptive audience. Over 200 alumni show up at the opening night of Skule Nite each year. Also watch for them at the homecumming football game — especially the LGMB oldtimers.

They are good guys to talk to if you want to know what engineers do after graduation, or if salaries are higher outside Toronto, or even if you're just looking for a good idea for a BFC caper. They are very accessable. Their man in charge of undergraduate relations is **Paul Baker** (Eng. Sci. 7T5). Wow, an Eng. Sci. graduate — that's an endangered species! Actually he hangs around here quite a lot for a guy who is supposed to have graduated. They say he graduated on a technicality — his average was over 60%. If you see him around, humour him. He has no life of his own. The shit-faced little worm is really a charity case looking for the year's biggest drunk and [illegible]

You might be able to reach **Paul Baker** (undergraduate relations) at home at night at **699-0483** but during the day it is best to leave a message with **Jan** in the Engineering Stores. Paul is an ex-officio member of the Eng. Soc. Executive so you can find him at most Society meetings.

SKULE

Services

Campus Cops

by B. F. Cuius

Sooner or later, you will find yourself face to face with one of Trawna's finest **campus cops** — a Mickey Mouse. The Mouse mentality is actually quite simple to understand, and if you think about it, that's hardly surprising. There are a number of basic tricks to know when dealing with them:

1) They don't want to know. The typical Mouse is terrified that something embarrasing might happen during his shift. If he can look the other way, or better still walk the other way, he will. Give him the chance. **A cornered Mouse can be dangerous.**

2) Act innocent. Smile and say hi — this often scares them away.

3) Give him your name. They are supposed to check your student card, but usually they just settle for a name. "Joe Skule" is one of their favorites. Don't worry about legal hassles. They file the names in the darkest depths of the Administration, never to be seen again. Or else use some dumb artsie's student card.

4) Tell them what you've done. The fastest way to get rid of unwanted Mice is to tell them that you've blown up Simcoe Hall, or dismantled Front Campus, or something equally imaginative. Then they won't let you tell them what you've been doing. They're in too much of a hurry to vanish.

5) As a last resort, give them a beer. All mice love beer. If you can't get rid of one and you need him to be friendly, you'll have to give him a drink. But Mice find beer hopelessly addicting. You may make them friendly, but they'll never leave — they'll come back again and again and again.

6)Be nice. The Mice can't help being Mice, they need the job. They can get really nasty at times, and remember — the Metros **do** have full authority on Campus — all the Mice have to do is call them. But then you wouldn't do anything illegal anyway.

Services

Placement Centre

If you're looking for a summer job, the University of Toronto **Placement Centre** is a good starting point. An early visit enables you to make optimum use of the services it offers. These are as follows:

1. Before Christmas they post a list of the companies which will be coming on campus to interview students for summer jobs. This also shows what discipline and year students the company wants to hire and when the interview takes place.

2. They supply you with application forms for these companies which you (a) take to the interviews, or (b) they send to the company which then invites you (maybe) for an interview.

3. You arrange through the placement service the time and the date of your interview. Generally a company interviews for two or three days, usually in January or February. To ensure that you get an interview and get one that is convenient for you, it is essential to go to the Placement Centre early on the day that signing up begins.

4. Part time and odd jobs are also advertised through the Placement Centre. Remember that the Placement Centre only arranges these things: IT DOES NOT GUARANTEE YOU A JOB. So, start there, but keep looking.

SKULE

Services

SAC

At the risk of repeating a well worn word, welcome; this time on behalf of the University of Toronto **Students Administrative Council** (SAC for short). SAC exists to represent and serve the 28,000 undergraduate students of the University of Toronto. Representatives are elected to SAC from every college and faculty; they exist to represent your opinions and work on projects to benefit you.

SAC's existence is based on the premise that U of T students share a variety of common interests: teaching quality, student housing and the rising cost (both direct and indirect) of post-secondary education. This year, SAC is particularly concerned with inadequate student assistance, the general deterioration in the quality of education due to insufficient government funding and student unemployment (both summer and graduate).

As well, our common interests as students extend into the field of services. SAC offers to its members a comprehensive array of programs: concerts at Con Hall, legal aid, ski days and weekends, student directories, weekly pub, speakers, riding stables, and events of interest to women. SAC funds the Alexandra Park Health Clinic, which provides a valuable learning experience for students in Health Sciences. SAC free films are held weekly at the Med Sci auditorium. A major priority of SAC is the realization of the Campus as Campus Centre project, which will provide sorely needed campus service facilities and make the university a more hospitable place to be.

SAC is your student organization. Working together, we can make the University of Toronto a better place.

John Tuzyk
SAC President

The APSC SAC Reps are: **Doug Gerhart, William Hatton, Chris Horne, Doug Robertson and Tom Simpson.**

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Student Administrative Council

There are medical students and engineering students. There are people in the arts and sciences and people in many other disciplines. There are differences that are unique to each person in each faculty.

The one thing we all have in common is the fact that we are U of T students. The instrument of the Student Voice at the University of Toronto is the Students' Administrative Council. SAC – WE'RE NOTHING WITHOUT YOU!

Without you we don't even have a first name

SKULE

Jocks

Athletic Ass Type 1

The Engineering Faculty has a body, the **Engineering Athletic Association**, which organizes sport activities for the faculty. Engineers are represented in the university intramural leagues in these sports: swimming, water polo, basketball, football (tackle & touch), hockey, lacrosse, rugby, soccer, squash, track & field and volleyball.

These sports are played at different levels of skill so there is no need for someone to think he or she is 'too good' or 'too lousy' for an engineering team. Keep an eye out for advertisements regarding the organizational meetings in the sports you are interested in, they'll be posted in the faculty buildings.

In addition to the faculty teams, there will also be intramural tournaments in these sports. You'll be able to form your own teams from within the faculty and play against other engineers.

If there is enough interest in other sports, eg., table tennis, skiing, etc., we can organize other tournaments. To get these started, come by the **Engineering Athletic Office** on the second floor of the Engineering Annex (across from the Bnad Room) during lunch break or leave a message for the Director of Athletics in the message box outside the door.

You can get a lot of satisfaction out of the investment of a few hours a week in sport.

SKULE

Jocks

Athletic Ass Type 2

The women in Engineering have gained quite a reputation in recent years as tough competitors in interfaculty sports. You too can have the chance to be a member of one or more of our legendary teams.

Engineering women enter competition teams in basketball, track and field, hockey, and volleyball. There are competition possibilities in broomball, badminton, indoor miniature golf, innertube waterpolo, tennis, table tennis and touch football. For team lists and exact dates, see the bulletin boards in the second floor of the Annex and the ladies' lounge on the second floor of the Galbraith building.

If you don't go in for team sports, the Benson building is the site of competitive sport and sport clubs for women. Female frosh are encouraged to check out the excellent facilities and programs.

The competition clubs exist for many sports: archery, badminton, curling, gymnastics, jogging, skiing and synchronized swimming. Some clubs are co-ed. See the same locations as above or call the Benson Building at 978-3441 for more info.

In addition to sports clubs and competitions teams, classes are offered in just about everything at all levels. Registration is announced in the Varsity. Go early as class sizes are locker availability is limited.

Debbie Bartolini is the commissioner for women's sports and she can give you additional info and encouragement to participate.

Engineering Athletic Ass

by Terry Gudzowsky

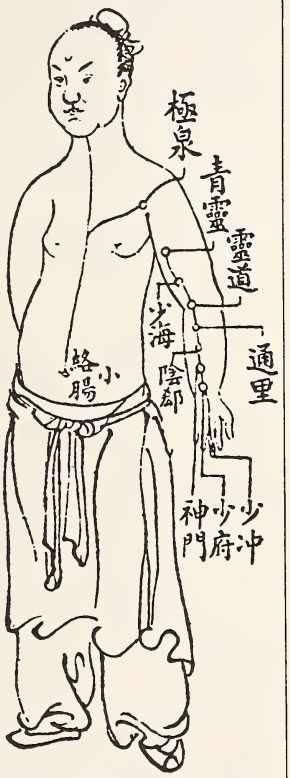
This article is specially written in simple language so that jocks can understand it.

What is the E.A.A.?

The E.A.A. is the Engineering Athletic Association, that means that it is **your** athletic association because everyone registered in the faculty is a member. Whether you like it or not, five bucks of your fees goes directly to the E.A.A. so you're only getting your money's worth if you use your association to your benefit. The purpose of the E.A.A. is to encourage athletics in every way at the University, and to co-operate with the University of Toronto Athletic Association.

Who runs the E.A.A.?

In the spring of every year, the Engineering Society holds their annual election. During this election, the students also elect a President and a Secretary-Treasurer for the E.A.A. The outgoing Executive of the E.A.A. appoint a Director of Athletics and 11 Commissioners. These 14 students 'run' the E.A.A.



What do these people do?

The President (**Mike Hantzsch**, Chem IV) administers to the affairs of the E.A.A. He calls and presides over the meetings, draws up a budget, supervises over the presentation of awards, and generally co-ordinates all sports. The Secretary-Treasurer records the minutes at the meetings, is responsible for all correspondence, and most important of all, takes care

of the loot. The Director of Athletics supervises all tournaments, represents the E.A.A. at various councils, and is the publicity man for the Association. The Commissioners for the eleven sports (aquatics, basketball, hockey, volleyball, squash, rugger, lacrosse, soccer, track and field, football and women's sports) are responsible for the complete organization and supervision of their sports.

Wow, that sounds like a lot of work.

It sure is. But those hours of work pay off in many ways.

Oh yeah?

Yeah, Engineering is pretty successful in athletic participation in the intramural and interfaculty sports. Besides keeping a lot of people in physical condition, it creates a situation where students from all the fields of engineering can meet each other, and students from the other faculties and colleges. That makes all the work very worthwhile.

But do we win anything?

When you run a good athletic program, and the student participation rate is high, then how can you miss? Four years ago, we won the T.A. Reed Trophy, as well as coming second three years ago. It is given to the faculty or college with the most successful teams in inter-faculty competition. With a good show from the students, we can win again this year.

What do the athletes get for a championship?

Well, besides a fair shake, a hand shake, and a hot cup of coffee, they get awards at the annual S Dance.

A dance, tell me more.

Yeah, anyone who participates in any athletics can come. All members are invited, and it is going to be held sometime in early March at a downtown hotel.

Is it fun?

Of course it is. Have you ever seen a hotel full of people come at the same time. Besides, all the awards are given out and there's booze and dancing.

Who gets the awards?

Anyone who wins an individual or team championship, finalists, the most valuable players of each sport, various classes for participation, athletes of the year, and everyone with enough S points.

What are S points?

What the F! Ya don't know what S Points are? Ya gotta be kidding.

Well, tell me and I'll know

Everytime a student participates in athletics at the university, he or she gets a certain number of S points. The more successful your effort is, the more points you get. If you get 15 points, you get a Chenille "S" (Skule letter), and if you have 40 points, you get a Bronze "S" (an oak plaque with an engraved Faculty crest) in your graduation year.

How do I know how many points I will get?

You can get an Awards Point Allotment Sheet at the athletic stores. Next term, in about January or February, you can fill out an S point form. It will also be available at the Stores that time. Even if you don't

think that you have enough points for an award, fill out an application anyway so that we have a record of your points total.

What other faculties have all this for their athletes?

As far as I know, no other faculty or college offers their students so much for the athletic participation. Some people might think it's all a waste of time and money. But, when you consider all the facts and figures, it is obvious that the amount of money spent is very small in relation to the number of people who benefit from the program. The amount of time spent also works toward giving the student a break from the classroom, which in turn gives the student a more rounded personality.

*Why do you say the word "**Participation**" so much?*

Contrary to all that crap you hear about winning is the only thing and winning is everything, the only thing and everything is actually participating. Standing on the side and cheering is fine, but it must be balanced with some participation on your part. Sure, winning is nice, but the real satisfaction comes from effort and self-improvement.

That sounds pretty philosophical for an Engineer.

Yeah. I actually read it on the washroom wall at Hart House.

Where can I find out more?

Go to the fourth stall from the left at Hart House and look for...

No you F! idiot, more about the E.A.A.

Oh, just go up to the Athletic Stores in the Annex and see if anyone will talk to you. Feel free to ask anyone what you want to know. The Stores will be open most lunch hours, plus any time there is someone there. Also, keep your eyes open for any posters in the Annex or the Tiny Toike regarding individual sports.

S-Point Awards

S-POINT AWARDS:

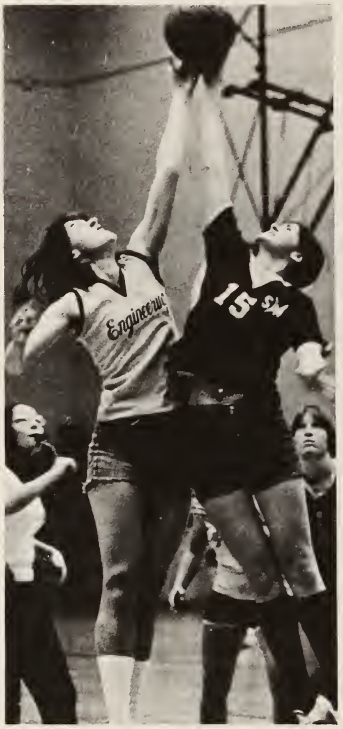
I **Athletic "S"** Award — 15 points.
II **Bronze "S"** Award — 40 points. (4th yr. only)
III **Championship Teams** — pewter stein
IV **Individual Awards:**
a) Record set or 3 wins/meet — pewter stein
b) One or two wins/meet — pen set/medallion
V **Outstanding athlete in each year** (four awards). To be selected by the E.A.A. as described in its constitution.
VI **E.A.A. Class Trophy** — for the class with the highest number of S-points per capita.
NOTE: In awards I-IV no athlete may be awarded more than one stein, pen set or medallion per sport in any one year.

Teams are divided into the following classes:

DIVISION A: (Team Sports)

CLASS I: The team designated as being the 'first' team in any team sport.:
Sr. Basketball, Rugger I, Squash I, Sr. Hockey, Waterpolo I, Lacrosse I, Sr. Soccer, Volleyball I, Football.

CLASS II: The team designated as being the 'second team' in any sport listed in CLASS I, or any other Engineering team playing at the interfaculty level — i.e. any team designated as a 'third' team.



CLASS III: Teams which play in the Touch Football League, or the Intermediate League for basketball and hockey, or any other Intermediate competition.

S-POINT TABLE: The points will be awarded as follows:

CLASS	I	II	III
Participation*	5	4	2
Playoff Team†	6	5	3
Finalist Team#	7	6	4
Championship Team	9	8	5

* 80% of games

† A team qualifying for league playoffs and having won at least 50% of its season's games.

A team losing in the final round of competition.

WOMEN'S SPORTS - all women's team sports shall be CLASS II Teams until such time as their playing schedules and competition for places on a team becomes comparable to that in men's sports. To be eligible for Participation points, the woman must have attended 75% of the required attendance time (games and practices).

DIVISION B (Individual Sports)

Includes track and field, golf, swimming, tennis, skiing, cross country or any other tournament type of sport.

1) Participation in any of the above
   1 point.
2) For track, swimming, skiing (including relays)
   1st ... 4 pts
   2nd ... 3 pts.
   3rd ... 2 pts.
3) For golf and cross-country
   1st or 2nd ... 8 pts.
   3rd, 4th, 5th ... 6 pts.
   6th, 7th, 8th ... 4 pts

Singles Tennis
   Champion ... 8 pts.
   Finalist ... 6 pts.
   Semi-finalist ... 4 pts.
   Quarter-finalist ... 2 pts

Doubles Tennis
   Champions ... 4 pts.
   Finalists ... 3 pts
   Semi-Finalists ... 2 pts.

Note: a) where points are earned for placing, the points for participation are forfeited.

b) if a team championship is awarded in any Division B Sport, every member of the team shall receive 2 points.

VARSITY TEAMS

Winners of a Varsity Intercollegiate Colour (Men's First 'T') or a Women's Intercollegiate 'T' shall be eligible to receive 10 points.

MANAGERS & COACHES

Intercollegiate Teams ... 3 pts.
Interfaculty Teams ...2 pts.
Intermediate Teams ... 1 pt.

A maximum of 10 points per year may be earned in any one sport plus the managers and coaches award for that sport if applicable.

Joke Page

SKULE Joke Page

My dog has no nose.

Really? How does he smell?

TERRIBLE!

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